Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

SHOUT
SHARE
IT

R8 1902
62.39

EVERYTHING FOR THE FARM AND GARDEN.

1902 YEAR BOOK

ROSS BROTHERS

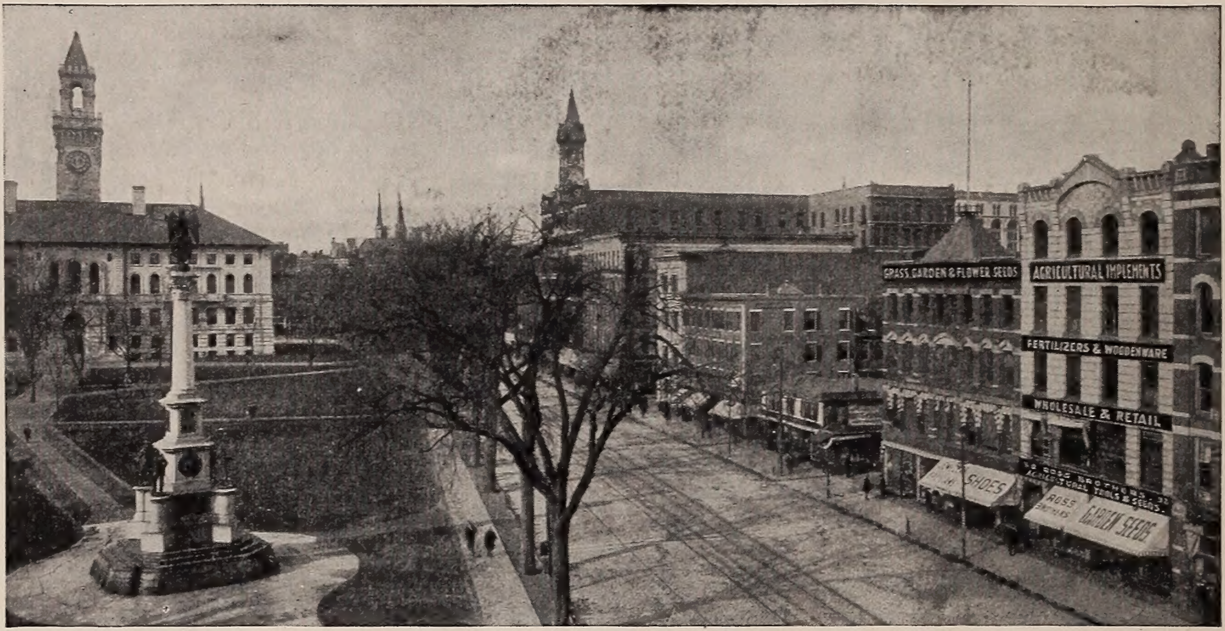
WORCESTER, MASS.

COPYRIGHT 1901 BY J. OTTMANN LITHOGRAPHING COMPANY. NEW YORK U.S.A.

New England's Greatest Agricultural Tool and Seed House.

LAST YEAR, on opening our new store at 90 and 92 Front Street, we made the claim that we had the greatest Agricultural Store in New England, and after one year's business, we are confident that we made no mistake, and as our trade for the past year was thousands of dollars ahead of any previous year, no firm has more reason to be thankful than we.

This Catalogue contains 16 pages more than last, and while we do not list experiments, we claim to have as large an assortment of reliable tested goods in Seeds, Implements and Fertilizers as can be found in the United States, and you can get of us anything necessary for the largest farm or the smallest garden.



For the benefit of those who did not get our last year's catalogue, we give above an illustration, showing our present location; and as all Electrics, controlled by the Consolidated Street Railway, pass our door, it is no trouble to find us. Ask the conductor to let you off at Ross Brothers, opposite the Soldiers' Monument. Parties that cannot call may depend on getting as fair and prompt treatment by mail as they would if they called in person. We shipped goods last year into fifteen different states, and we are in better shape this year to handle our orders than ever before. Believing that you will continue with us as you have in the past, we are,

Yours respectfully, ROSS BROTHERS.

A Few Things of Importance that We Wish Our Customers to Read.

WE WARRANT OUR SEEDS just as far as it is possible for us to do so.

WHAT WE GUARANTEE. That all seeds sold by us shall be as represented; should they prove otherwise, we will refill the order gratis, but we cannot guarantee the crop further, as there are so many causes over which we have no control, that let seeds be ever so fresh, weather and circumstances may cause a total failure, and while we use the greatest care to have all seeds pure and reliable, we do not give any warrant, expressed or implied. If the purchaser does not accept the seed on these terms they must be returned at once, and the money paid for them will be refunded.

C. O. D. ORDERS. Parties ordering goods to be sent C. O. D. must enclose with the order one-third of the amount, as a guarantee that they will accept the goods upon arrival; and all C. O. D. goods must go by express, as railroad companies will not do any collecting.

EXTRA PARTS. Parties sending us broken castings for patterns on repair orders must prepay express charges, as we cannot afford to pay express on old castings.

BAGS USED IN SHIPPING SEED. All two-bushel bags are 15 cents; all other sizes, unless otherwise noted, 10 cents, which may be returned, provided they are in good condition and return express charges prepaid. Returned bags must always have the name of the sender on the tag.

HOW TO ORDER. Give your name, town, state and county, and do not forget the post-office, as that is the most important of all.

TERMS. As there are no means of our ascertaining the commercial standing of farmers at a distance, we must have cash with the order or some satisfactory bank reference, but the liberal discount we offer for cash will more than pay the customer for sending the money when they order the goods.

HOW TO SEND MONEY. There are a number of safe ways to send money by mail. Either by an Express or Post-Office Money Order, or send check on your bank. We are not particular how it comes, as long as we receive it. Stamps are always acceptable, and very handy to send on small orders. Wrap them in oiled paper to prevent sticking.

ORDER EARLY. You may think it is because we are in a hurry to get your money that we advise ordering early. Not so; but early orders always get the best of attention, the best stock, and the best of everything. As a great many varieties of vegetable seed are short on account of the dry weather last year, late buyers will get left, for the reason that there is not enough seed to supply the demand.

MARKET GARDENERS. Parties wanting ten or more dollars worth of bulk seed will do well to write us for market gardeners' prices, for on such orders, if received early, we can make lower prices than are quoted.

Do not forget to read our instructions in regard to seeds by mail. We explain it fully, and if you will follow our advice it will save you a great many delays.

Printed by Gilbert G. Davis, Worcester, Mass

General List

OF
STANDARD
VARIETIES

VEGETABLES

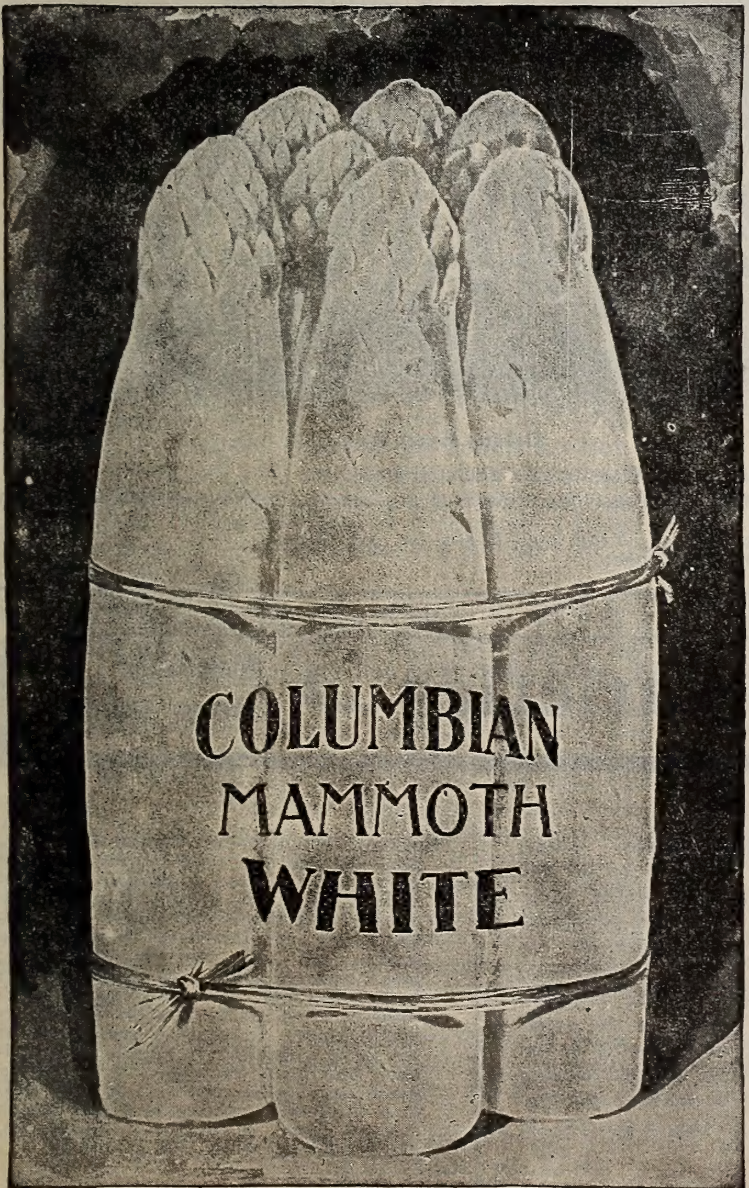
GROWN BY US, OR FOR US BY THE MOST RELIABLE GROWERS.

OUR AIM !

To Furnish Good Seeds of Pure Stocks and Tested Vitality at Fair Prices.

Read Carefully

WE PAY POSTAGE on all Seeds in Packets, Ounces and Quarter Pounds, **but postage must be added** to all orders above quarter pounds at the rate of 8 cents per pound and by the quart and pint at the rate of 15 cents per quart for Beans and Peas and 10 cents for Corn. Comparison of our prices with those of houses whose quoted prices include postage will show that ours, after postage is added, are often lower than theirs. Notwithstanding that our method is opposed to that which seems at present to be the popular one, we are, on account of our large counter trade, obliged to continue it, because if we quoted prices to include postage, we should be obliged to deduct the amount of the postage from each article purchased at our counter, necessitating a needless waste of time when it is very precious. It must be evident to all who will give it a little thought that the postage must be paid by the customers in some way and that it really makes no difference to them as to how it is paid. As a matter of convenience to the dealer we believe he is justified in conducting his business under either or both methods, but he has no right to hold out as an inducement to purchase of him that he pays the postage because actually he does not, the customer does, and any attempt to make it appear otherwise is really one to make it appear that the customer gets "something for nothing." For our convenience we include postage in prices quoted on plants and bulbs unless otherwise quoted, but also for our own convenience do not include postage in quoted prices on seeds except where noted, but the customer neither buys plants cheaper nor does he pay more for his seeds than if we simply reversed the methods, because under both methods, he really pays the postage.



All Seeds

in bulk ordered sent by mail require a remittance for postage. For Beans and Peas—Quart, 15c., pint, 8c., ½-pint, 4c. For Corn—Quart, 10c., pint, 5c., ½-pint, 3c. For all seeds by the pound (above quarter pound) 8 cents.

A Change

Not having been satisfied for sometime with the prevailing custom of selling Beans, Peas and Corn in packets, because the quantity was so indefinite to the purchaser, we have therefore decided to make a change, and now offer these seeds (with a few exceptions) by the half pint instead of packet. This change will enable all to know just what they are buying and also often to get a much larger quantity of seed at a slightly increased cost—the postage only.

Special Offer ✲ READ CAREFULLY.

Purchasers of Seeds in Packets and Ounces when catalogue Price is **not over 10 cents** per Packet or Ounce are entitled to select seeds as follows:—

For 25c.	Seeds may be selected amounting to	**35c.**
For 50c.	" " " "	**75c.**
For $1	" " " "	**1.60**

Bear in mind that this offer applies **only** to seeds in **Packets and Ounces** and **only** to those of which the price is **not over 10 cents** per Packet or Ounce and **does not** apply to seeds by the quart or pound. Customers therefore sending us mixed orders; that is for Packets and Ounces and Seeds in Bulk, either by the Quart or Pound will only receive of the latter **the quantity covered by the remittance** after allowance has been made on the order for Packets and Ounces.

Asparagus

✓**Barr's Mammoth.**—Originated in Philadelphia and very popular in that market. Claimed to grow twice as large and to be more productive than Conover's Colossal.

✓**Columbian Mammoth White.**—A distinct and valuable variety. Stalks are very large and clear white until three or four inches high.

✓**Conover's Colossal.**—An old standard variety, largely grown.

✓**Donald's Elmira.**—A new and popular sort; originated in Elmira, N. Y., by Mr. Donald. Claimed by some to be the largest and of the best quality of all varieties.

✓**The Palmetto.**—Claimed by the introducers to be much earlier and a better yielder than the Colossal, and more even and regular in growth.

ALL VARIETIES.—Pkt. 5c., Oz. 10c., 2 oz. 15c., ¼-lb. 25c., lb. 75c.

Asparagus Roots

Of Two years' growth. **All varieties, by mail or express prepaid, per 50, 65 cents. By express or freight not prepaid, per 100, 80 cents; per 1000, $5.50.**

Before Ordering, if you will Carefully Read what we say regarding our Special Offer and Postage, it may save you A Disappointment or Delay.

BEANS DWARF or BUSH. Green Podded Varieties.

Extra Early Red Valentine. An old, well-known variety which, until the Mammoth Stringless became known, was considered the best green podded variety for snap or string beans. Pods round, meaty and tender. Plant usually healthy and very productive. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 80c., pk. $1.50.

Early Long Yellow Six Weeks. An old standard variety, used both as a string and shell sort. ½ pt. 8c., pt. 12c., qt. 20c.; 2 qts. 40c., ½ pk. 70c., pk. $1.25.

Early China Red Eye. Also an old and well-known variety. ½ pt. 8c., pt. 12 c., qt 20c., 2 qts. 40c., ½ pk. 70c., pk. $1.25.

Low's Champion. One of the best varieties for shelling. Beans when ready for use in their green state bright red, becoming darker when dry. Plant vigorous in its growth; less liable to blight or mildew than most other varieties; very productive. Several years ago we catalogued this variety, but the trade in New England demanding the colored or striped podded Horticultural type the call for this was so limited we were obliged to drop it from our list which we greatly regretted, as we believed it to be, and still think it is, one of the best if not the best variety for the private garden for shelling. As the public has in a measure learned its value and the demand has considerably increased we have again placed it on our list. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 75c., pk. $1.40.

HORTICULTURAL VARIETIES.

With Striped Pods—For Shell Beans.

Dwarf Horticultural or Speckled Cranberry. The standard green shell bean throughout New England. Beans round, speckled and of good quality. Pods yellowish, splashed with red, and when free from rust and blight very showy. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 80c., pk. $1.50.

Best of All. Beans similar in color to the preceding, longer but smaller. Pods are six inches long, similarly marked, but not as bright and handsome. Of excellent quality and an abundant yielder. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 80c., pk. $1.50.

Crimson Beauty. Beans nearly identical in shape and color with the Best of All. Pods long, similar in coloring to the preceding two varieties but much brighter and showier than either. Vines also are freer from blight and more productive. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 80c., pk. $1.50.

Goddard or Boston Favorite. Vines large, of vigorous branching habit, often having short runners. Beans large and long, similar in color to all Horticultural varieties. Pods long, yellow, splashed with crimson; very attractive and equal in size to many pole beans. Later than preceding varieties. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 80c., pk. $1.50.

WAX OR BUTTER BEANS.

Black or German Wax. One of the oldest wax sorts. Pods round, meaty, tender and of finest flavor, but small. More liable to rust than other good varieties, but when free from rust and blight few equal it in quality.

Currie's Rust Proof Black Wax. Beans brownish black; pods flat, of good length, showy and of fine quality. Well merits the name of rust proof.

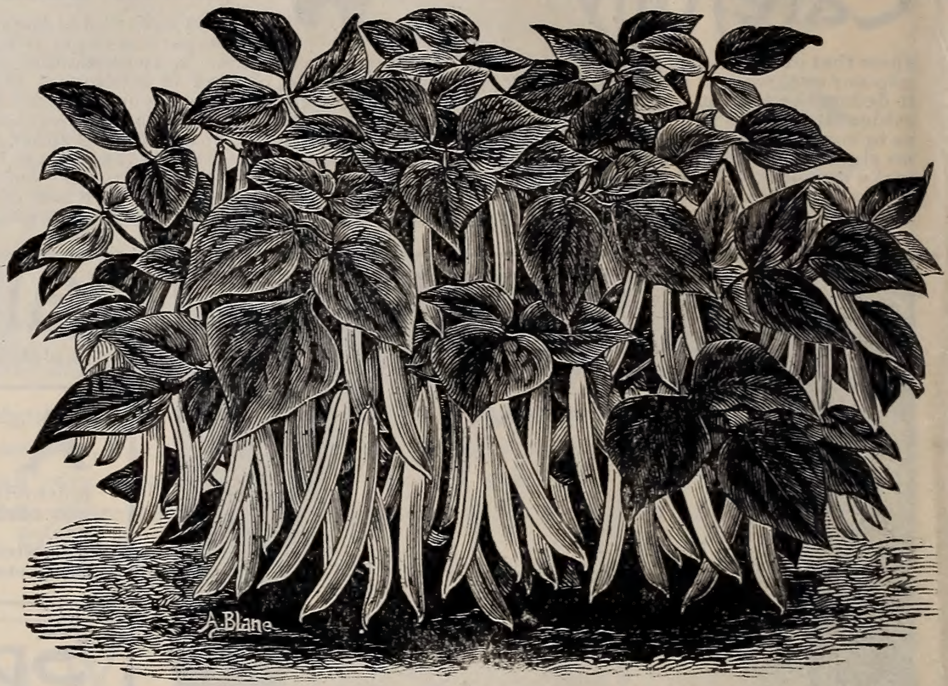
Golden Wax. For a long time the standard wax bean and still a general favorite. Pods long, nearly straight, flat, golden yellow with short green points, stringless, fleshy and tender. Beans medium sized, oval, ground white covered more or less with purplish red, different crops varying considerably in appearance, owing probably to soil or location in which they were grown. Plant vigorous and productive.

Golden Eye Wax. One of the best wax beans for the market gardener. Although not equal in quality to some others, its hardiness, entire freedom from rust, earliness and productiveness make it a profitable variety.

Detroit Wax. An excellent variety. Plant hardy and productive; pods straight, flat, but broader than the Golden Wax, of beautiful wax color when grown to a size suitable for use; keep crisp and bright long after picking, very seldom rust, and of good quality. Beans white, with a patch of brown about the eye, similar in shape to the White Marrow, and equally as good for baking.

Wardwell's Kidney Wax. Kidney form; color white, with dashes of light purple about a white eye. A valuable variety.

Davis' White Kidney Wax. Claimed by the introducers to be "earlier, hardier, more prolific, handsomer and a better seller than any of all the wax varieties," a claim which the opinion of many who have grown it, to a considerable extent, verify.

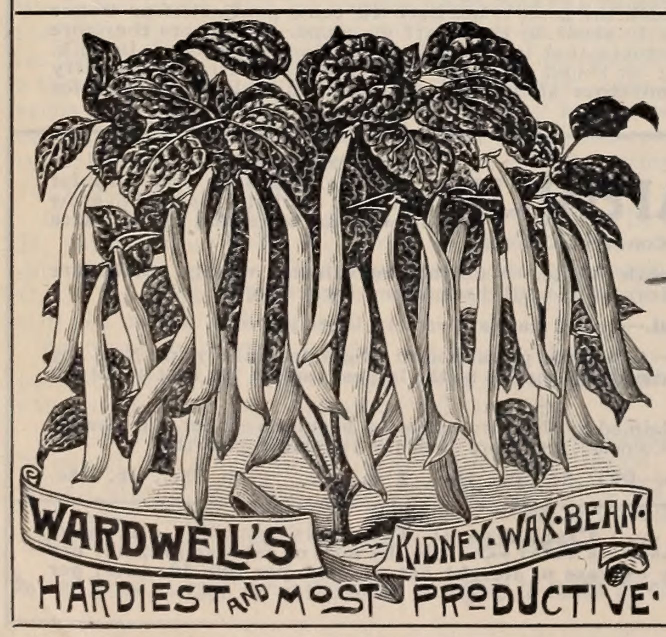


Golden Eyed Wax.

Valentine Wax. Probably the earliest wax bean. Pods round, similar to those of the Black Wax; tender and stringless.

Refugee Wax. Like the Green Podded Refugee very hardy and extremely productive. Pods long, round, meaty, tender, entirely stringless and fine flavored. The best round podded wax bean.

All wax varieties at uniform prices.—½ pt. 10c., pt. 15c., qt. 25c.; 2 qts. 45c., ½ pk. 80c., pk. $1.50.
If desired by mail add for postage at the rate of 15 cents per quart.



Two Varieties WORTHY OF . . . SPECIAL MENTION

Mammoth Green Pod Stringless. *Early, hardy, productive.* This is by far the best green podded snap or string bean, combining extreme earliness, hardiness and productiveness, with tenderness, entire freedom from strings, and thick meaty quality of pods. The superior excellence of this variety in the desirable qualities referred to makes it the most satisfactory green podded variety for either the home or market garden. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 50c., ½ pk. 90c., pk. $1.65.

Improved Goddard or Boston Favorite. Has all the desirable qualities of the regular strain. *But is entirely free from runners.* Since its introduction the Goddard has always been a popular second-early sort, its hardiness, vigor, large beans, and long, straight, handsome, bright-colored pods making it so; but it has always had the vexing habit of running badly, a trait which prevented its use by some. In the Improved Goddard we have a variety in which this tendency has been overcome, making it a great improvement on the old. It also is a few days earlier and has better colored pods. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 50c., ½ pk. 90c., pk. $1.65.

POSTAGE Is Not Included in Our Prices for **BEANS.** Therefore, when Desired by **MAIL** Amount Sufficient for Postage Should be **REMITTED. See Page I.**

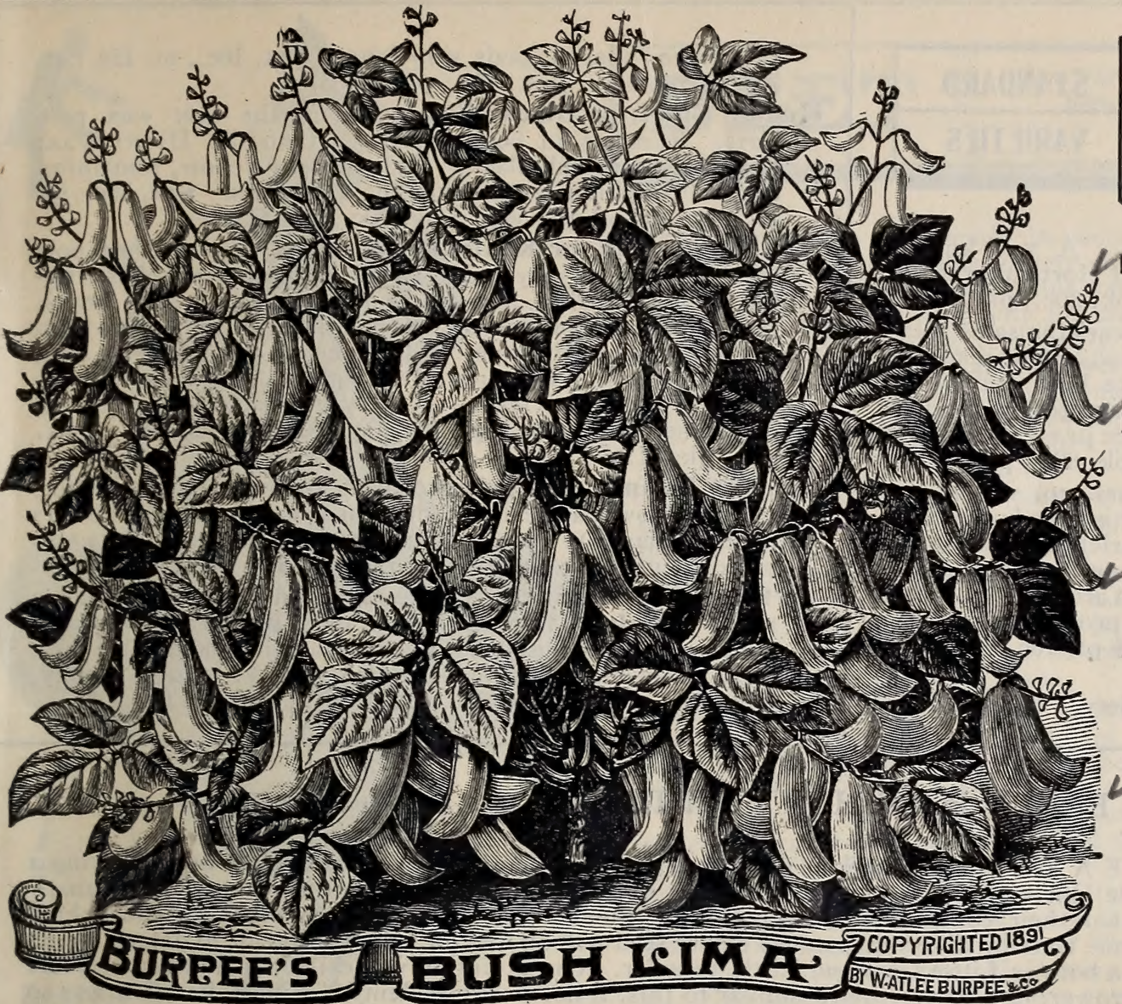
BEANS DWARF LIMA

Henderson's Bush Lima. This variety is especially valuable on account of its earliness; a bush form of the Early Sieva Lima and has the small beans of that variety. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 50c., ½ pk. 90c., pk. $1.65.

Burpee's Bush Lima. A bush form of the large Lima. Grows uniformly dwarf. Beans are equal in size and quality to the large Lima. By far the most popular of this class. ½ pt. 10c., pt. 20c., qt. 35c., 2 qts. 60c., ½ pk. $1.00, pk. $1.85.

Dreer's Bush Lima. A bush form of the Dreer's Improved Pole Lima, which is considered by many as the best of all the Limas. ½ pt. 10c., pt. 20c., qt. 35c., 2 qts. 60c., ½ pk. $1.00, pk. $1.85.

LIMA BEANS ☙ Pole or Running.


BURPEE'S BUSH LIMA
COPYRIGHTED 1891 BY W. ATLEE BURPEE & Co.

The Seibert's Lima was developed by a market gardener who selected the largest green beans from the thinnest and most easily opened pods. The vine is very productive and exceptionally hardy and vigorous. It produces pods very early and the beans are of fine quality. The green shelled beans are of immense size, but so tender and succulent that they shrink in drying to about the size of the Large White Lima. In earliness, ease of shelling, size, beauty and quality of the green beans, this new variety is in advance of all other sorts.

King of the Garden Lima. Vine vigorous and productive. Pods very large and well filled with large, white beans, succulent and fine flavored. On account of its large pods a general favorite with market gardeners.

Large White Lima. The old standard sort, yet largely grown, but being to a considerable extent displaced by the newer varieties.

Challenger, or Dreer's Improved Lima. A distinct variety; both pods and beans are shorter but much thicker than other sorts. The pods are borne in clusters, rarely have over four beans, often but three, in a pod, but are always well filled, so that a quantity of them will usually produce more beans than an equal quantity of any other variety. The beans are easily shelled, are of excellent flavor, slightly more mealy than other thinner sorts. The vine is of vigorous growth and very productive, does not produce pods quite as early as the flat pod sorts, but does not differ greatly in this respect from the preceding two varieties. A decided favorite with those who are acquainted with it.

All varieties at uniform prices.—½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 55c., ½ pk. $1.00, pk. $1.75.

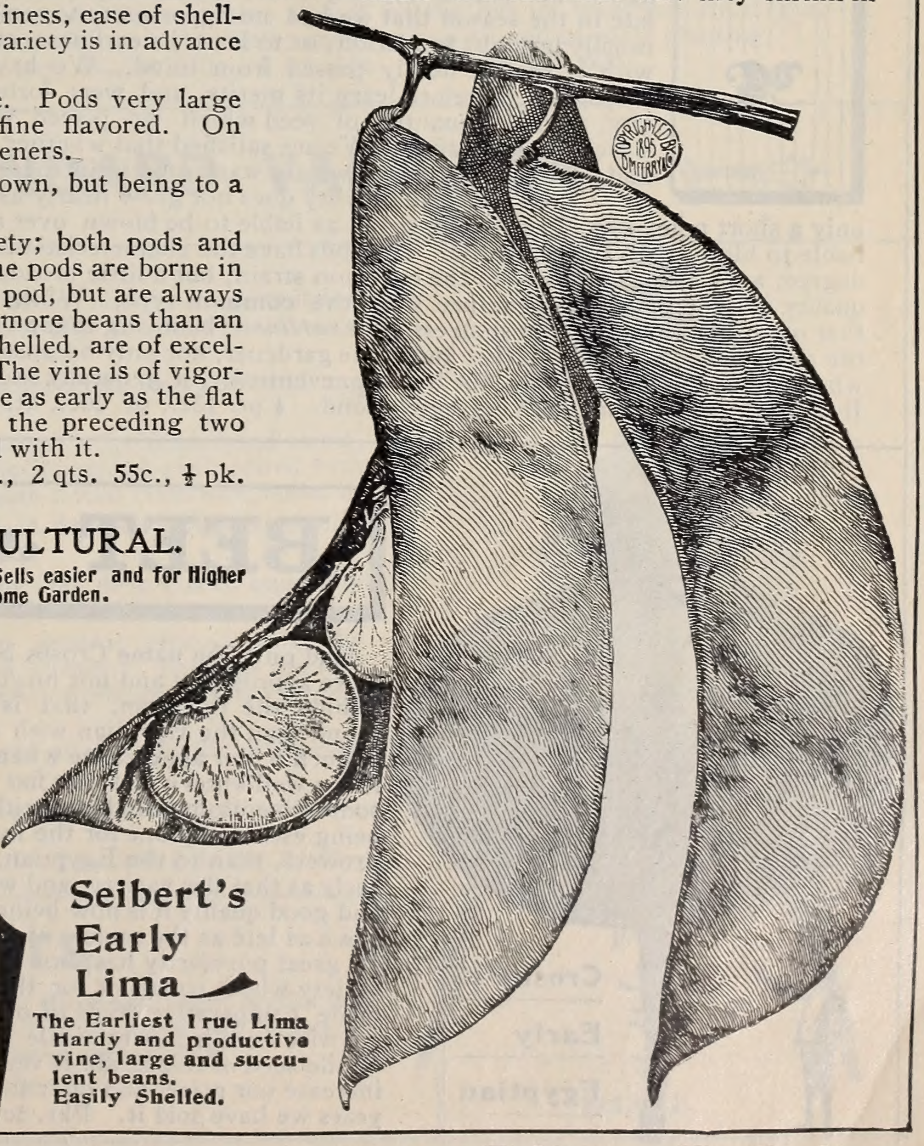
WORCESTER MAMMOTH POLE HORTICULTURAL.

The Largest and Handsomest Beans and Pods. Most productive and thrifty vine. Sells easier and for Higher Price than any other. Best for the Market Garden. Best for the Home Garden.

This variety, while similar in general character to the Horticultural Pole, is much superior in several ways. The beans though closely resembling those of the common strain are so much larger that, if that were the only point of excellence it would be alone sufficient to recommend it for general use, but its strikingly handsome pod combined with its great size are both features of excellence which still further recommend it. Added to these excellent qualities, are those of thrifty, vigorous growth of vine and great productiveness, all making it a variety especially desirable to the market gardener. It easily brings a higher price in the market than any other, and is not excelled by any other sort for the home garden.

Our regular stock, grown in the state of New York by reliable growers from stock furnished by us, not quite equal in size to the following. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 80c., pk. $1.50.

Selected Local Grown, extra large beans, ½ pt. 15c., pt. 25c., qt. 50c., 2 qts. 90c., ½ pk. $1.60, pk. $3.00.



Seibert's Early Lima

The Earliest True Lima. Hardy and productive vine, large and succulent beans. Easily Shelled.

BEANS Pole or Running — STANDARD VARIETIES

Horticultural, or Speckled Cranberry. A well-known standard variety. Beans similar to Dwarf Horticultural. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 80c., pk. $1.50.

Brockton Horticultural. This variety bears the same relation to the Pole Horticultural that the Goddard does to the Dwarf Horticultural. Beans and pods are both similar in shape and color to the Goddard. It is a vigorous, thrifty grower, productive, and well worthy a place in every garden. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 80c., pk. $1.50.

Concord Pole. An old variety, which, years ago, was a popular one, especially in the eastern part of this state but which, probably owing to the great demand for varieties with colored pods, has been largely displaced by them. Beans large, white with large blotch of yellowish brown around eye. Pod when fit for picking yellowish green. A productive and especially desirable variety for home use. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 80c., pk. $1.50.

Dutch Caseknife. An old, well-known variety. Beans white, flat, kidney-shaped; pods very long. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 50c., ½ pk. 90c., pk. $1.65.

Indian Chief, or Black Wax. One of the best wax pole sorts. Remains in bearing longer than the Dwarf Wax. Beans large, round, black. Pods of waxy yellow, remaining in good condition longer than most varieties. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 50c., ½ pk. 90c., pk. $1.65.

Old Homestead, or Kentucky Wonder. The earliest pole bean. The pod is very long, of a silvery green; entirely stringless, of good quality, and makes one of the best snap beans. It is enormously productive, the pods hanging in clusters from top to bottom of the pole. The beans are of a yellowish dun, of medium size, but, owing to the length and number of pods, the yield of beans is large. A very satisfactory variety for home use. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 50c., ½ pk. 90c., pk. $1.65.

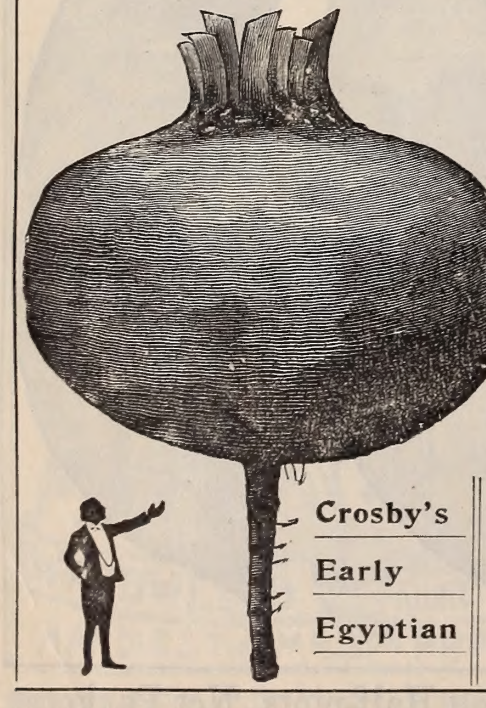
Scarlet Runner. Largely grown as an ornamental climber; its rapid growth and early production of dazzling scarlet flowers make it a favorite for covering screens, walls, etc. It is also of excellent edible qualities but rarely grown for that purpose.

White Dutch Runner. Quite similar in general appearance to the preceding, differing only in color of flowers and beans, which are white; used both for ornamental and table use; early, productive and of excellent quality. Each variety, ½ pt. 10c., pt. 20c., qt. 35c., 2 qts. 60c., ½ pk. $1.00.

EXTRA EARLY POLE HORTICULTURAL ☙ A New Variety.

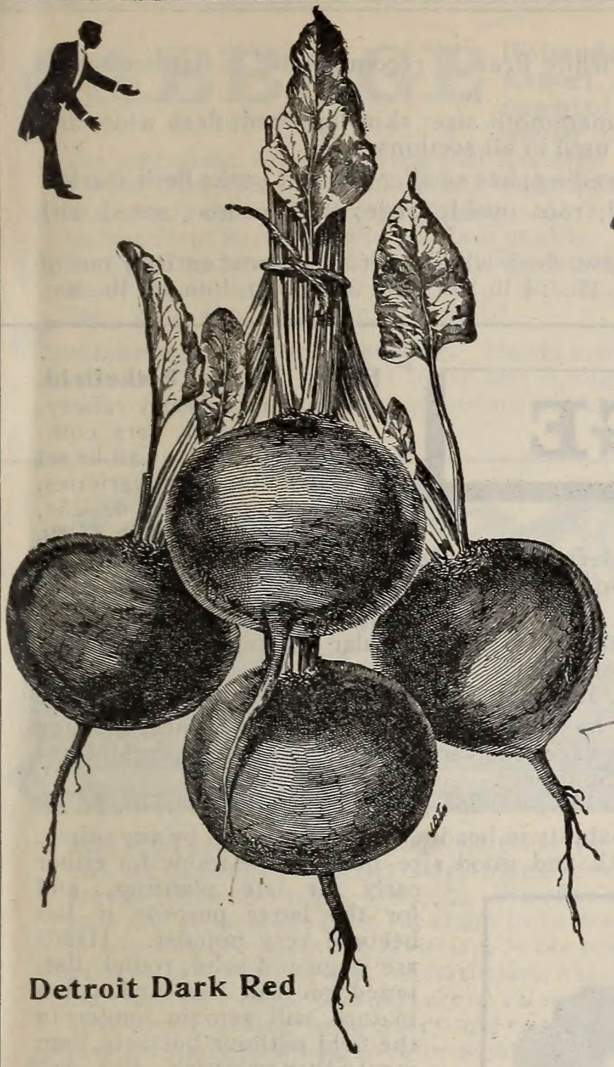
FOR SEVERAL YEARS a few market gardeners in the vicinity of Worcester have been growing a very early strain of the Pole Horticultural type with the result of being able to bring into market "Pole Beans," at least *two weeks earlier* than their competitors growing the ordinary strain. Like many other varieties which have been cultivated for some time by different persons before seed was offered for sale, is difficult to determine its origin. It is locally known both as Little Gem and Little Wonder. Our attention was called, a number of years ago while visiting a seed-grower, to a variety quite similar to this, if not entirely identical with it, but as it was so late in the season that we had no opportunity to see it growing or to see the pods in the condition that they are usually brought to market, or to learn its earliness, etc., as we since have, we were at the time so little impressed with it that it nearly passed from mind. We have, however, for several years, had opportunity to see growing crops, and therefore learn its merits, and were fortunate in securing, last spring, from a leading gardener of this city, a limited quantity of seed which we placed with a reliable grower who succeeded in obtaining a fair crop, which we now offer. We are satisfied that whether or not it is a new variety, that but few are familiar with it, and because of its merit we are warranted in introducing it as a new and valuable one.

The vine, while thrifty does not grow nearly as tall as the common Pole Horticultural, therefore, requires only a short pole, which, of course, is not as liable to be blown over as a taller one. It is immensely productive, and we think less liable to blight than the old strain. The pods have the characteristic bright coloring of all the Horticultural varieties but to a greater degree, are a trifle shorter than the common strain, but a little broader and always well filled. The beans are fully equal in size and quality and identical in appearance with the common type. While these features are all desirable and serve to recommend it, that on which we lay the most stress is its *earliness*; believing that a variety so much earlier than any other of its class should receive the attention of both the market and home gardener, not only because it will afford profit to the smaller number of market gardeners who will probably first use it, but because, eventually, if generally used, it will considerably extend the season of Pole Horticultural Beans of which so many are extremely fond. ½ pt. 12c., pt. 20c., qt. 35c., 2 qts. 60c., ½ pk. $1.00, pk. $1.85.



BEET ☙ Crosby's Early Egyptian — The Best Early Beet for the Market Gardener ☙☙

Had only the name Crosby been given this variety it would, in our opinion, have been much more appropriate and not misleading as now called, for in only one respect does it much resemble the Egyptian, that is color, and even that is a little lighter. It is more nearly round than the Egyptian with none of its tendencies towards irregularity in form. It makes a much better appearance when bunched for market, and is decidedly of better quality. While it is a well known fact that flat roots are as a rule earlier than deep, round ones, there are some exceptions which are without doubt made and kept so by careful selections. This variety being essentially one for the market gardener, more attention has been given it by the seed growers, than to the Egyptian, and we have in this variety of nearly spherical form, one as early as that flat variety, and which in every other way excels it. Owing to its quick growth and good quality it is now being used to some extent for the last sowing for winter use, seed sown as late as the middle of July on rich soil often producing roots of good marketable size. Its great popularity has, however, been gained as an extra early, and we have yet to see a variety which equals it for that purpose. We have yearly grown this beet and have often made comparative trials of other so-called fancy strains, but have yet to find one which in anywise excelled ours while we have found some which were inferior in various respects. While seed of this strain is very scarce this year we have not considered it necessary to greatly increase our price, and offer it at only a slight advance from the low price which for several years we have sold it. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 20c., ½ lb. 35c., lb. 65c.



Detroit Dark Red

BEET

Two Varieties Possessing that Quality so Desirable both to the Market Gardener and Amateur, RICH DARK COLOR.

Detroit Dark Red. So nearly in accord are we with the introducers' claims and description of this valuable variety that we quote what they say of it as follows: "Long experience has shown this variety of our own introduction to be the best deep red turnip beet, not only for market gardeners, but for the home garden. Its small upright-growing tops, early maturing, and the splendid shape and color of the roots, make it popular with every one who plants it. Tops small, upright-growing, so that the rows may be close together; leaf-stems and veins dark red, blade green, roots globular or ovoid, peculiarly smooth; color of skin, dark blood-red; flesh bright red, zoned with a lighter shade, very crisp, tender and sweet, and remaining so for a long time."

The only possible objection to this variety would be that it has a tendency to the ovoid form rather than the globular, a feature which, perhaps is a sectional objection rather than a general one. A large part of our trade demands a beet as nearly round as possible and which we supposed was general, although aware that the longer types were used to some extent in other sections. How be it, this, if an objection, is so slight an one that it has not prevented us from having a constantly increasing trade since we began to sell it, its rich deep color more than off-setting any possible objection to its shape.

Crimson Globe. A new comer, claimed to be the best of the Early Round Deep Crimson Varieties. As early and far superior to the Egyptian. In reply to our inquiry regarding the merit of this beet, and especially whether it would be desirable for fall planting as well as early, a prominent seed grower has this to say of it: "The Crimson Globe Beet is really an early variety, but also a very good one for general crop. It is of good shape and deep color, and is just what is needed for fall planting. The Egyptian planted in the fall does not grow smooth, while this grows very smooth and is perfectly round or globular. The flesh is dark, if anything, darker than the Eclipse, while the skin is, although a shade lighter, of a crimson, resembling that of the Mangel Wurzel. It grows to a fair marketable size, of course not as large as the old Dewing, and I do not think you would care to have it. Everyone with whom I have come in contact, who have seen the Crimson Globe, like it, and in my opinion it will fill the bill for what you are seeking—a deep-colored, medium-sized variety, good for late as well as early planting."

Each of above, pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 20c. lb. 60c.

BEET ❧ STANDARD VARIETIES.

Early Egyptian. One of the earliest, roots flat, of a deep crimson, tops small, permitting it to be planted closer than other varieties, therefore especially desirable for forcing as well as for first open ground planting.

Eclipse. One of the earliest globe-shaped varieties, with rather small tops and small tap root, blood-red; of excellent quality.

Bastian's Early. A very quick-growing sort, of superior flavor, very tender and sweet, tops of medium size, leaves green, stem pink, roots red, flesh purplish-pink zoned with white; on account of its light color not as popular as its quality would otherwise make it.

Faust's Early Crimson. This is also known as Mitchell's. A first early of good quality and form, and as its name indicates, of deep color.

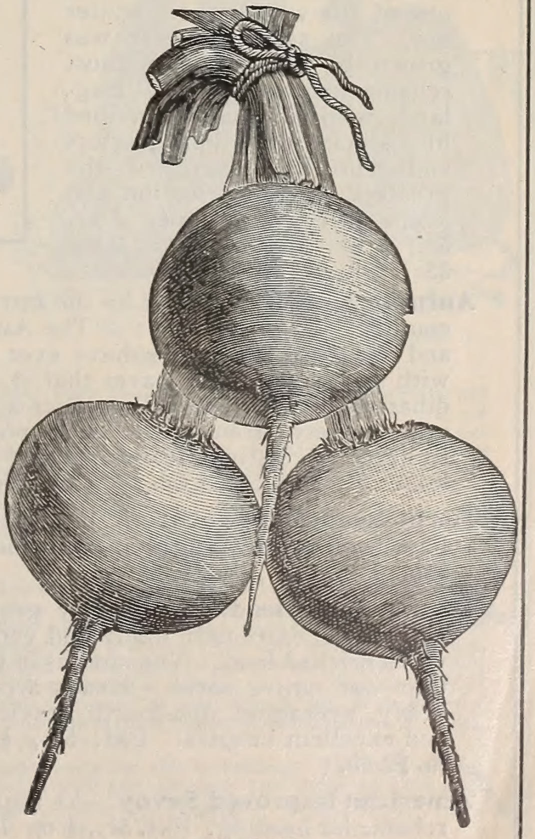
Arlington Favorite. An excellent variety of globular form and deep color, especially desirable to follow the first earlies.

Edmand's Early Blood Turnip. Somewhat similar in general character to the Dewings, both being a great improvement on the old Blood Turnip. This has smaller tops than either, is of fine globular form, deep color and superior quality. Used largely for main crop and winter use.

Dewing's Improved Blood Turnip. A decided improvement of the old Blood Turnip, has smaller tops and is of better color.

Swiss Chard. Used for Greens only, like Spinach, at first entire, later the leaf stalks are sometimes used separately, cooked like Asparagus.

All varieties at uniform prices except where noted. Pkt. 5c, oz. 10c, 2 oz. 15c, ¼ lb. 20c, lb. 50c.



ECLIPSE.

BRUSSELS SPROUTS.

A very hardy plant of the Cabbage family, growing from two to three feet high, producing at the axils of the leaves the whole length of the stem small heads about two inches in diameter, resembling a cabbage and considered by some to be of finer flavor.

Best Imported. Pkt. 5c, ½ oz. 10c, oz. 15c, 2 oz. 25c, ¼ lb. 40c.

SUGAR BEET AND MANGEL WURZELS

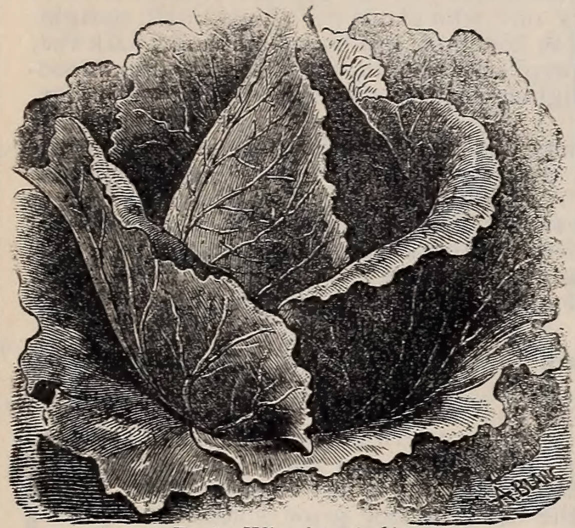
Lane's Sugar. An improvement on the old white French, recommended as hardier and as containing a larger percentage of sugar.

Mammoth Long Red Mangel. A variety of mammoth size; skin light red, flesh white and rose. Grows well out of ground; extensively used in all sections.

Norbiton Giant Long Red. Similar to the preceding; has smaller top and neck; flesh scarlet.

Golden Tankard. Top and neck very small; root ovoid, large; flesh yellow, zoned with white; an excellent sort.

Orange Globe. One of the best, top small, root medium size, skin deep orange yellow, flesh white. Grows almost entirely out of the ground; good for shallow ground; easy to harvest. Prices uniform on all: ¼ lb. 15c., ½ lb. 20c., lb. 35c., 5 lb. lots per lb. 30c.


Early Winningstadt.

CABBAGE

Early Jersey Wakefield. The standard early variety. Heads conical, very compact and solid. Can be set closer than most varieties. Pkt. 5c, ½ oz. 15c, oz. 25c, 2 oz. 40c, ¼ lb. 70c, lb. $2.50.

Charleston Early Wakefield. A selection of the Jersey Wakefield, a few days later but much larger. Pkt. 5c., ½ oz. 15c., oz. 30c., 2 oz. 50c., ¼ lb. 85c., lb. $3.00.

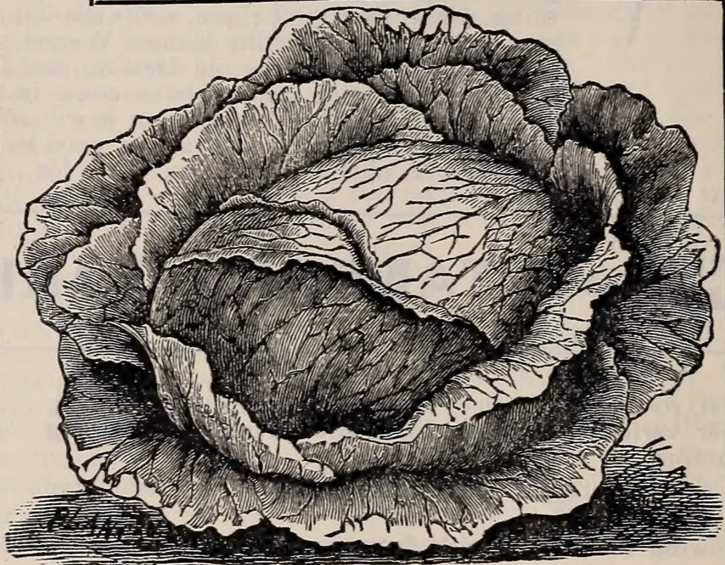
Henderson's Early Summer. An early large heading sort. Heads flat, sometimes slightly conical with large outer leaves; very popular with market gardeners, and an excellent variety for the home garden. Pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 70c., lb. $2.50.

Henderson's Succession. Claimed by the introducers to be "the finest cabbage in existence." Very similar to that excellent variety, the All Seasons. Matures about ten days later than the Early Summer. Pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 70c., lb. $2.50.

All Seasons. A variety which for reliability in heading is not exceeded by any other, if indeed equaled. Its rapid growth and good size make it desirable for either early or late planting, and for the latter purpose it has become very popular. Heads are large and solid, round, flattened on the top, and when mature will remain longer in the field without bursting than most other varieties. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c., lb. $2.00.

Early Winningstadt. Heads large, cone-shaped and solid; one of the best for all soils. Pkt. 5c., ½ oz. 10c., oz. 15c., 2 oz. 25c., ¼ lb. 40c., lb. $1.40.

Fottler's Improved Brunswick. The earliest of the large heading Drumheads; in great favor with market gardeners in all sections. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c., lb. $2.00.


Fottler's Brunswick.

Premium Flat Dutch. An old well-known variety, yet very popular. Heads flat, large and solid. Very reliable in heading. Pkt. 5c., ½ oz. 10c., oz. 15c., 2 oz. 25c., ¼ lb. 40c., lb. $1.40.

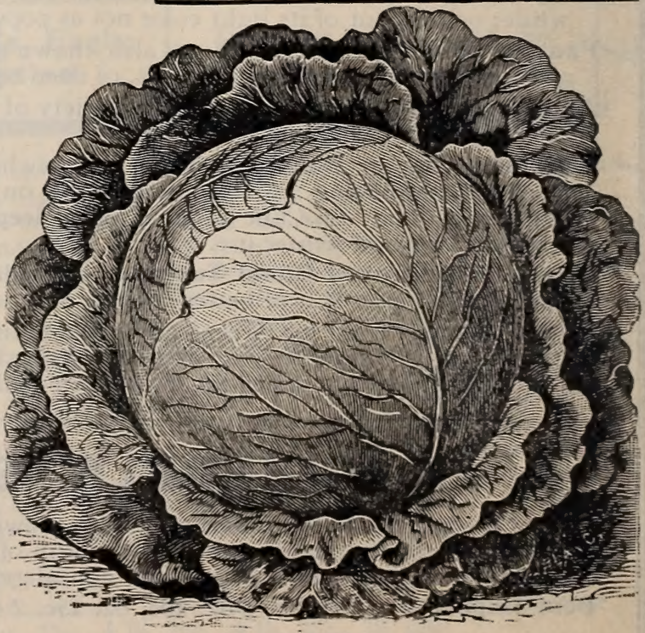
Warren Stone Mason. An improvement on the Stone Mason which for years was one of the most popular varieties in New England. This is earlier, more nearly round and more solid; one of the very best for winter use. The seed we offer was grown by one of the most reliable growers in New England, who originally obtained his stock from headquarters and who has exercised the greatest care in selection and keeping it true to type. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c., lb. $2.00.

Autumn King. Claimed by the introducers to be the best late cabbage in the country. They say of it: "The Autumn King is an entirely distinct variety and the best keeper we have ever seen; it produces enormous solid heads with such small outer leaves that it can be planted much closer than the ordinary late sorts, and will produce a greater weight of crop per acre than any other variety, from the fact of its producing so few outer leaves and going all to head. A distinct feature of the Autumn King is the peculiarly crimped leaves." Pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 70c., lb. $2.50.

Marblehead Mammoth. A late variety, the largest of all cabbages; heads have been grown weighing sixty pounds. Pkt. 5c., ½ oz. 10c., oz. 20c., 2 oz. 35c., ¼ lb. 60c., lb. $2.00.

Danish Ball Head. A variety grown almost exclusively in Denmark for winter use; extremely hardy and very reliable in heading if planted on strong, well-enriched land. The stumps of this and other foreign varieties are longer than our native sorts. Heads are of medium size, round, very hard and heavy, averaging one-fourth heavier than other varieties; of the best quality, and excellent keepers. Pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 70c., lb. $2.50.

American Improved Savoy. An improvement on the Green Globe Savoy; very reliable for heading. Pkt. 5c., ½ oz 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c., lb. $2.00


Danish Ball Head.

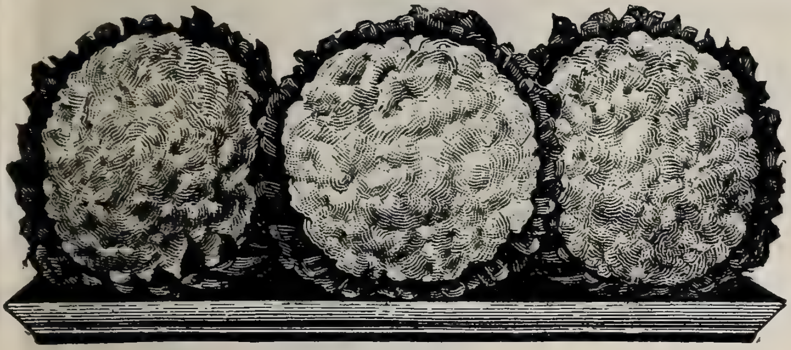
CABBAGE
(Continued)

Hollander, or German Export. This is also an imported variety with similar characteristics to the preceding, some claiming that it is even hardier than the Danish Ball Head, and that it will endure frost and drought that would destroy any other cabbage. It is late in maturing, an excellent keeper and of the best quality. For best results both this and the preceding should be sown at least two weeks earlier than other winter varieties. Pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 70c., lb. $2.50.

Luxemburg, or Hard Heading. Heads medium size, nearly round and of good quality; outer leaves slightly tinged with red. Excellent as the two preceding varieties are, the Luxemburg is thought by some to exceed them in hardiness and solidity and especially in keeping. An old and very reliable seed firm say:—"This is the king of all cabbages for late spring selling, and those who raise it will have the markets of late spring entirely to themselves." Like the Danish Ball Head and Hollander, it should be planted earlier and soil should be richer than for most other varieties. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c., lb. $2.00.

Mammoth Rock Red. The best, largest and surest heading Red Cabbage. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c., lb. $2.25.

Red Dutch. An old well-known variety; heads not large but very solid. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c., lb. $2.00.

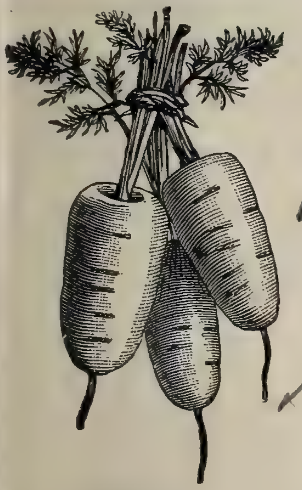


CAULIFLOWER

Early Snowball. The earliest variety and the surest to head. It is probably more largely grown than all other varieties combined, not only for early use but late as well, and has to a great extent displaced all of the once popular late sorts. Owing to its compact habit and few narrow and upright leaves it is the most desirable for forcing, and, for the same reason, can be set much closer in the field than others. Were there no other variety in existence we should all be fully as well off, and probably better. It would be difficult to imagine a better one, unless one could be originated that would head under the unfavorable conditions that sometimes prevail when no variety succeeds. We offer a strain of seed, which, in spite of the claims put forth by some that they have the only pure and reliable seed, we yet claim to be *true and reliable;* a claim which we could easily substantiate, and in a convincing manner to any who are open to conviction, *by the results obtained by those who have used it.* While good seeds cannot, as a rule, be sold at extremely low prices it is, nevertheless, a fact that an exorbitant price does not necessarily make any article good or better. Neither our claims nor those of others are of value unless they can be proven to be true,—results only can prove them. These our customers have found entirely satisfactory and equal in all respects to those obtained from seed claimed to be *the only reliable* and for which they formerly paid nearly twice what ours cost them. Pkt. 20c., ¼ oz. 65c., ½ oz. $1.25, oz. $2.25.

Extra Early Paris. Heads large, white, compact and solid, of excellent flavor; a favorite with market gardeners. Pkt. 10c., ¼ oz. 40c., oz, 75c.

Half Early Paris. Not as early as the preceding variety. Heads large and compact, of good quality. Pkt. 10c., ½ oz. 35c., oz. 60c.



Early Horn.

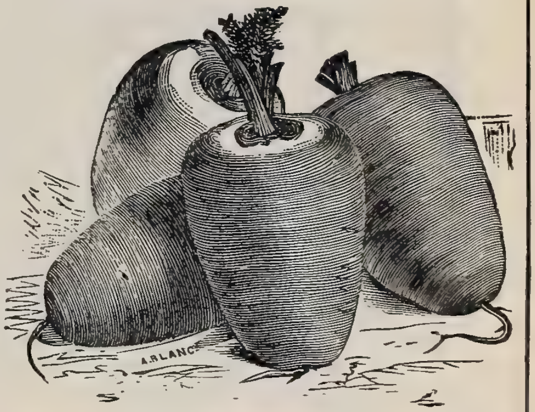
CARROT

Early Scarlet Horn. A popular early variety, grown only for table use. The roots are about three inches long and one-half inch in diameter at top, tapering slightly and terminating abruptly like the larger stump-rooted varieties. They make an attractive bunch, are of excellent quality and have small tops. Pkt. 5c.. oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 90c.

Chantenay. This is an excellent variety for bunching. The roots are five inches long, three inches in diameter at the top, tapering gradually, but uniformly stump-rooted. The flesh is tender and crisp, color deep orange. The tops are of medium size, and necks small. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 90c.

Oxheart, or Guerande. Roots very thick, often over five inches in diameter at shoulder, tapering to not less than two inches at the stump-root, and about five or six inches in height. The flesh is very fine-grained, free from core, tender and sweet. Color, bright orange. An excellent variety for either table use or for stock, and especially suited for hard, stiff soil, where longer growing varieties seldom thrive. Pkt. 5c., oz. 10c.. 2 oz. 15c., ¼ lb. 25c., lb. 85c.

Danvers. This for a long time has been, and is yet, the most popular variety. It is used for bunching for market early in the season, and later for packing in boxes or crates. It is also extensively grown for stock. While the yield per acre would probably not be as large as from the Rubicon or Long Orange, it, like the first, succeeds better on shallow soils and on stiff, hard ones, than the Long Orange; is much easier harvested than the latter, and of much better form and more attractive in appearance than the former. This latter feature, of course, makes it more desirable for market, although of no more value for feeding, and its popularity for feeding is perhaps largely due to a want of acquaintance with the Rubicon. The roots are about two inches in diameter at the shoulder, and five to six inches long. The flesh is fine-grained, tender and sweet. The tops are of medium size and the neck small. Our strain is one which we have sold for a long time; has the rich, dark color so much desired by the trade, and runs very uniform and true to name. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 85c.

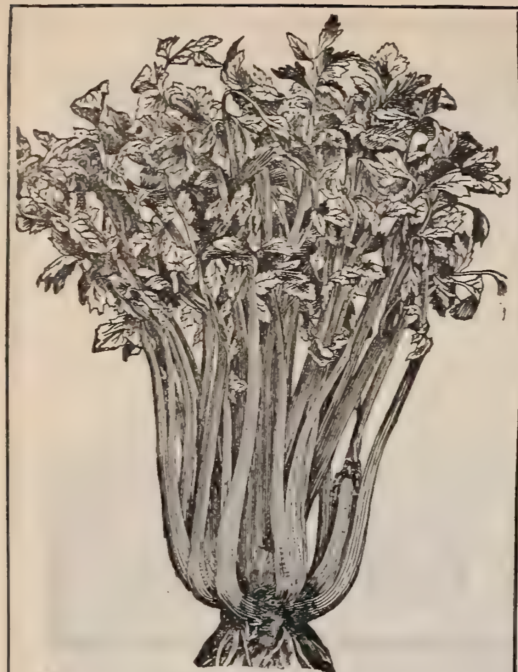


Ox Heart, or Guerande.

Rubicon. This new variety is similar in form to the Ox Heart, but much thicker and longer. It is also earlier, larger and, therefore, heavier than the Danvers, and, while we are not disposed to in any way disparage the excellence of the Danvers, we consider the Rubicon the superior variety for growing for stock, because of its greater weight the yield per acre would be larger, and as the roots, like the Danvers, are short it is as equally desirable for shallow, or stiff, hard, soils. It has fewer and finer leaves than the Danvers; has no neck, growing hollow-crowned, and is very uniform in growth. It is of good color and quality, but will probably never be a popular market variety, lacking attractive form. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 75c.

Long Orange. An old, well-known and popular variety, and on soils adapted for it—that is deep, mellow ones—the heaviest cropper of all. It is largely grown for stock, but to some extent for market. The roots are very long, smooth and handsome, holding their thickness well down, tapering gradually to a point. The main improvement in it is a slight shortening of the root, with perhaps a deeper color. Our strain is of the desired color and true to name, is one which we have sold for years, and we have yet to find one which in anywise surpasses it. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 85c.

Large White Belgian. Grown only for stock feeding, The root is pure white and grows one-third above the ground, the color of that part being green. Tops small; roots, on rich soil, large; flesh rather coarse. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 20c., lb. 50c.



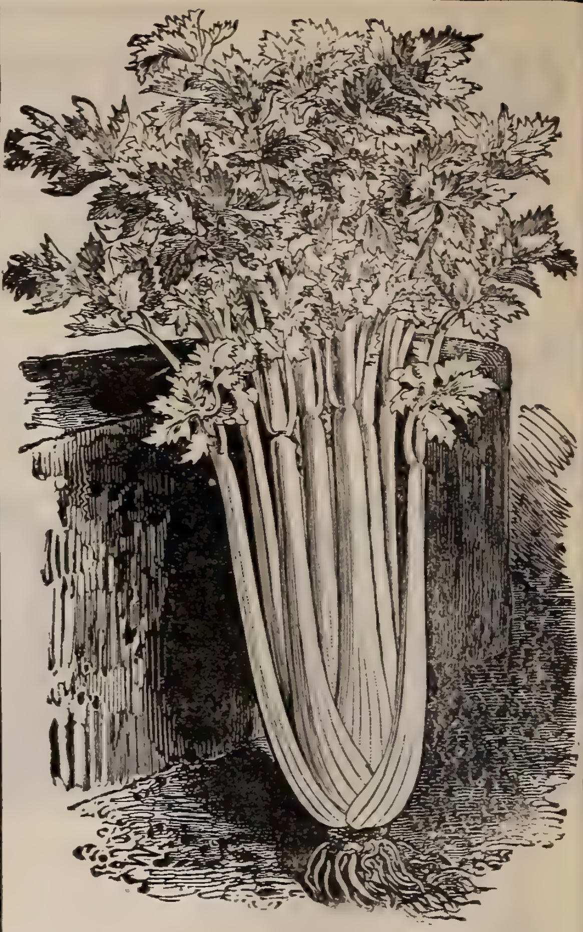
Boston Market.

CELERY

White Plume. The earliest and most easily blanched of all varieties; requires little banking-up to make it fit for market, belonging to the self-blanching class; but, in our opinion, it, like all celeries, is of much better flavor when blanched with earth. A desirable variety for early fail use, but does not keep well; very showy and beautiful, but not more so than the *Golden Self-Blanching*, and not equal to that in several other respects. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c.

Pink Plume. Nearly identical with the *White Plume*, except the tinge of red on the leaf stalks, which fades to faint pink when blanched. Like the White Plume it is easily blanched and is of better quality. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c.

Golden Self-Blanching. The most popular variety in cultivation. It is nearly as early as the *White Plume*, is generally considered to be of better quality and flavor, and has to a considerable extent displaced it. It is of dwarf, compact habit, and, when grown in rich, moist soil and under favorable conditions, produces more large, thick stalks than other varieties, in such cases requiring but two plants to make a bunch, whereas it usually requires three or more of other varieties. It is self-blanching to a remarkable degree. When young the plant is of a yellowish-green, blanching to a deep, golden-yellow, and the inner stalks to nearly white. It is, when ready for market or the table, a thing of beauty as well as utility, and a most decided ornament to any table. We offer a proven strain of seed. Pkt. 10c., ½ oz. 20c., oz. 35c., 2 oz. 65c., ¼ lb. $1.20.



Golden Self-Blanching.

Rose Ribbed Paris. This variety in general character resembles the *Golden Self-Blanching*, differing, however, in a few features. It is even more compact in growth, and the stalks are a little larger. The color is a beautiful golden-yellow, slightly deeper than the Golden Self-Blanching, especially the upper portions of the inner stalk; but that which makes it the most distinct and more beautiful is the tint of red on the stalks. At the base, this is more nearly a pink, but deepens into a carmine line on the ribs. The outer leaves are green, shading into deep yellow at the center. It is practically stringless, is crisp, tender and fine flavored. It is nearly as early as the preceding and as easily blanched. Its attractive appearance, large size and superior quality entitles it to first place in the list of self-blanching varieties and warrants a more general cultivation. Pkt. 10c., ½ oz. 20c., oz. 35c., 2 oz. 60c., ¼ lb. $1.00.

Boston Market. An old standard variety, for many years grown more extensively for Boston market than any other. It is noted for its tenderness and flavor. It is peculiar in its growth, forming a cluster of heads instead of a single large one. Pkt. 5c.; ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c.

Boston Market. Selected stock, Arlington grown. Pkt 10c., ½ oz. 25c., oz. 40c., 2 oz. 75c., ¼ lb. $1.25.

Giant Pascal. This is a green leaved variety, which was developed from the Golden Self-Blanching. It is much larger, a better keeper and of superior flavor. It grows about two feet high, has very broad and thick stalks, which are stringless. It has a peculiarly sweet and nutty flavor, entirely free from any bitter taste. It blanches quickly after banking-up. Pkt. 5c., ½ oz. 12., oz. 20c., 2 oz. 35c., ¼ lb. 60c.

Celeriac, or Turnip-rooted Celery. The roots only of this are used, either boiled or sliced for salads, or for flavoring soups.

Erfurt Giant. Pkt. 5c., ½ oz. 10c., oz. 15c., 2 oz. 25c., ¼ lb. 40c.

CRESS, OR PEPPER GRASS.

Curled. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 20c.

SWEET CORN

A New Variety.

THE METROPOLITAN.

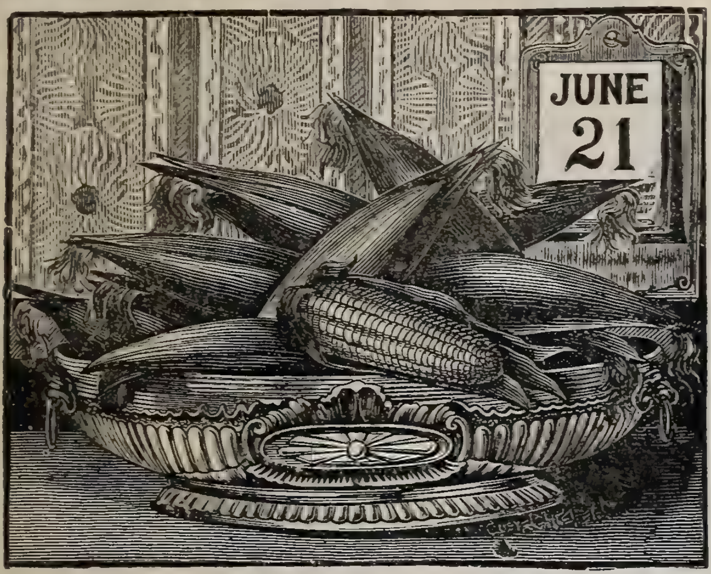
The introducers say of it: "It is only two days later than Cory, which, until now, has been the earliest sort.

"The plant is distinct, being very strong in stalk, growing 5½ feet in height. The leaves are numerous, narrow and very dark green in color. The ears are all set low, not over 1½ feet from the ground, producing from two to three to the plant. They are uniformly 9 inches long, 10 to 12 rowed, well filled to the tip with large deep grains, which are very tender. It is not merely sweet, but possesses in a remarkable degree that exquisite richness so well-known in the larger and later sorts. We should add that an ample husk fully insures its value as a shipping variety; indeed, the combination of good qualities possessed by it makes it the most desirable of all for early trucking."

While the above claims and descriptions are in general correct, we take exception to the statement that it is only two days later than the Cory. All those who are at all familiar with the Champion and Kendel's know that they are from a week to ten days later. We have found that the Metropolitan ripens with them. That this is correct is verified by the statement made by the Everett B. Clark Co. of Connecticut, the largest growers of sweet corn in New England, who in reply to an inquiry of ours as to the general characteristics of the Metropolitan said: "We find the Metropolitan and Kendel's ripening the same day with the Champion, perhaps one or two days later. The Metropolitan is perhaps a little more slim and longer eared and a trifle more dwarf in habit of stalk." This, while undoubtedly the truth, does not greatly detract from its value and should not prevent any from a just consideration of its many good qualities or from a general use of it. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 40c., ½ pk. 65c., pk. $1.00, bush, $3.50.

WE AIM TO HAVE OUR DESCRIPTIONS ACCURATE. If your experience convinces you that they are not, BE SURE AND TELL US.

CORN. Sweet or Sugar.



FIRST OF ALL.

THE FIRST OF ALL. The earliest variety. A selection of the Cory, a very little earlier, next in popularity to that well known sort.

THE CORY. The most popular early variety, cobs mostly red, kernels from deep pinkish cast to white, ears eight-rowed and of fair size, of medium quality and a good yielder.

WHITE COB CORY. A selection of the preceding, with only pure white kernels and cobs; larger and sweeter.

EARLY MINNESOTA. An old standard sort. Kernels white and very large for an early sort. Ears of medium size.

EARLY CROSBY. An early variety and one of the most popular ones in cultivation; for years the standard early sort in Boston market. Follows closely the preceding varieties. Kernels white, small and remarkably sweet and tender. Ears rather short, wtih twelve to sixteen rows.

NEW EARLY CHAMPION. The earliest large sweet corn yet introduced, being only a few days later than the first early small sorts. Twelve-rowed, with pure white kernels.

KENDEL'S EARLY GIANT. A very large variety considering its earliness. Kernels white, ears well filled out and showy; of good quality.

SHAKER'S EARLY. Claimed when introduced to be as early as Minnesota. We have never found it so, but consider it very early for so large an eared variety. Of good quality.

MOORE'S EARLY CONCORD. Not quite as early as preceding varieties, but has a very large ear, with twelve to sixteen rows. Popular in New England as a second early sort, and often planted for main crop.

BLACK MEXICAN. A variety when ripe with blueish black kernels, but when in suitable condition for eating cooks white. But few varieties equal it in tenderness and sweetness. Ears of medium size. It is ready for use about with the Concord.

POTTER'S EXCELSIOR OR SQUANTUM. Known by the first name for years in Boston market, where it was very popular. Used extensively in Rhode Island, where it was named Squantum. Ears of medium size. A standard of excellence in tenderness and sweetness, and is yearly increasing in popularity.

COUNTRY GENTLEMAN. A medium late variety, having irregular rows. Has a very small cob and deep kernel, is tender and sweet; very desirable for the home garden.

MARBLEHEAD MAMMOTH. The earliest, sweetest and largest of all the Mammoth sweet varieties.

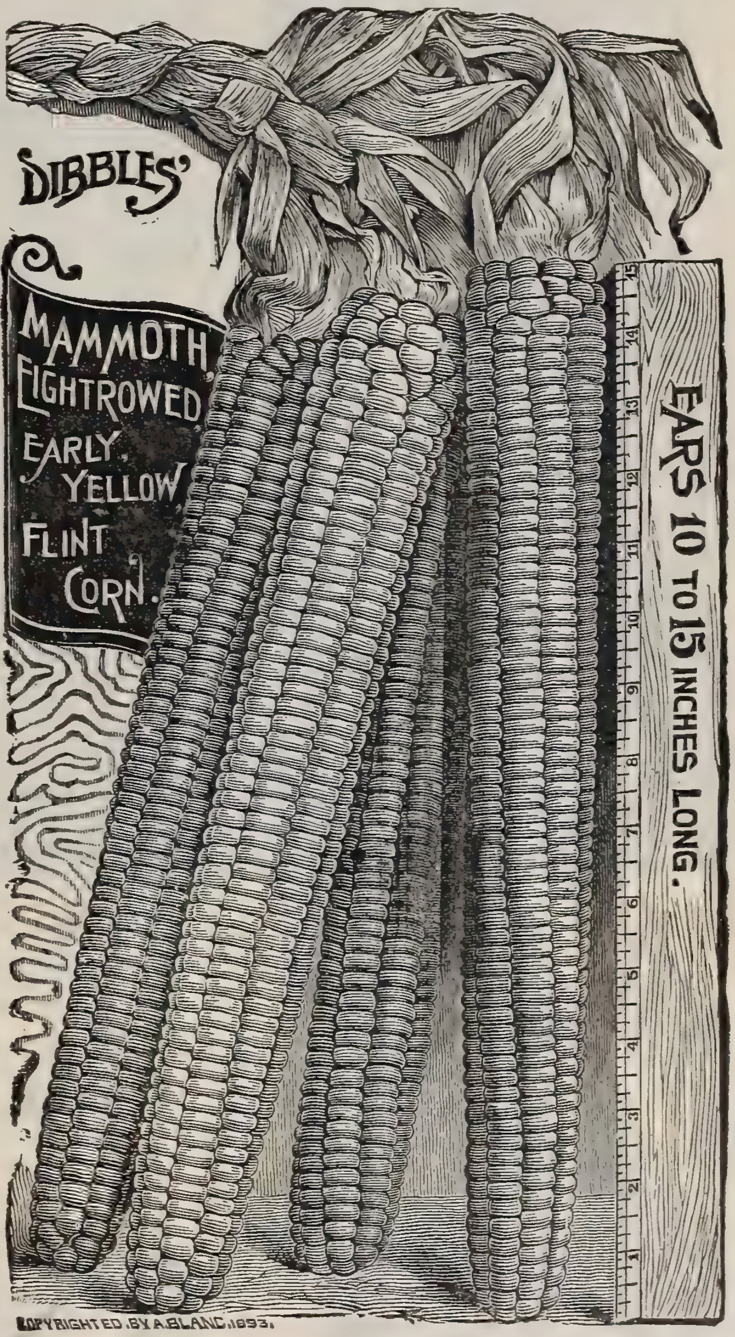
Above varieties, each, ½ pt. 8c, pt. 12c, qt. 20c, 2 qts. 30c, ½ pk. 50c, pk. 90c, bush. $3.00

STOWELL'S EVERGREEN. Used more generally than any other late variety. Ears large, kernels very deep and shriveled. ½ pt. 6c, pt. 10c, qt. 15c, 2 qts. 25c, ½ pk. 40c, pk. 65c, bush. $2.25

STOWELL'S EVERGREEN. For fodder. Bush. $1.40, 2 bush. $2.50

CORN. Field, Fodder and Ensilage.

DIBBLE'S MAMMOTH EARLY FLINT. This is a selection of the Longfellow, combining earliness and large size. Under ordinary treatment this has produced some very large crops, having yielded at different times 140 to 160 bushels per acre with only 500 pounds of Mape's Corn Manure. Pk. 50c, bush. $1.75.



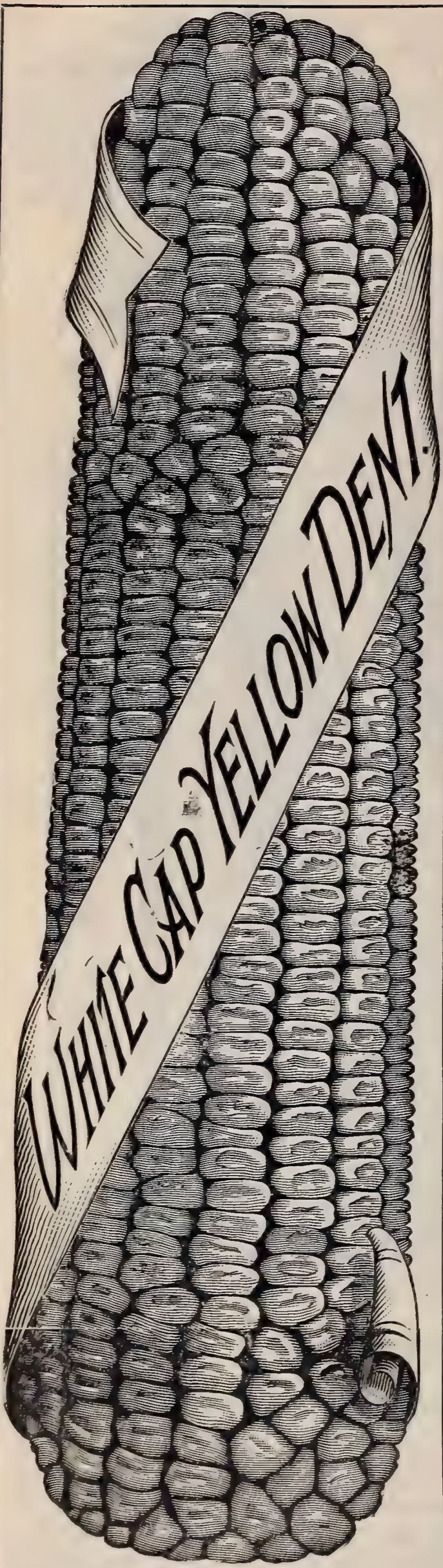
Two Varieties of Sweet Corn of Special Merit.

MAMMOTH WHITE CORY. Introduced by D. M. Ferry & Co., whose description we quote. "The largest and Best Extra Early Sweet Corn. The stalks are no larger than those of the White Cob Cory, but each stalk furnishes two or more large, fine shaped ears which are fit for use before those of any other sort. The ears are twelve-rowed, very symmetrical and handsome, with no opening between the rows at the base. The grain is large, broad, very white and of remarkably good quality for such an early sort. The beauty and quality of this variety give it ready sale even when the market is over-stocked."

FERRY'S EARLY EVERGREEN. Also introduced by D. M. Ferry & Co., who say of it: "We have tested many samples of Evergreen Corn that were claimed to be earlier than Stowell's Evergreen, and to be just as good, but we have never found any of them valuable. For the past six years we have been developing this variety which we offer with the statement, backed by careful tests made both in the trial grounds and in the field, that it will furnish ears fit for use much earlier than Stowell's Evergreen. The ears are like the Evergreen, very large, with about eighteen, more or less, irregular rows and a very long grain, which is of the very best quality. It remains in condition for use longer than other sorts, exceeding the Stowell's in this respect. The plant and ear would be pronounced by observers to be a fine stock of the old variety, though fit for use one to two weeks earlier." **Each of above,**

½ pt. 8c, pt. 12c, qt. 20c, 2 qts. 35c, ½ pk. 60c, pk. 90c, bush. $3.50

We Do Not PREPAY POSTAGE on Corn, Beans or Peas. When Ordering BE SURE AND REMIT SUFFICIENT AMOUNT For Postage.


WHITE CAP YELLOW DENT.

WE HAVE Entire Control of Eureka Corn, but sell it at wholesale as well as retail. Those who prefer to buy of some dealer nearer, rather than directly of us, should be sure that this dealer has the GENUINE EUREKA. It is always put up in bags, plainly marked, "ROSS BROTHERS' EUREKA ENSILAGE CORN."

CORN
FIELD, FODDER and ENSILAGE.

THE present high prices of corn will, undoubtedly, lead to a much larger acreage this year in the east, and good seed will be in great demand. We offer a list of well-tried varieties. Our stocks have been grown for us by reliable growers especially for seed, carefully selected, and well cured and tested as to germinating power, and will, under usual conditions, give entire satisfaction.

Improved Canada, or Canada Cap. Known also as Early Demond, Deerfield, Greenfield or Connecticut Valley. This differs from the common Canada, or Canada Cap, in that the ear is about two inches longer. Like that, it is eight-rowed and early enough to mature a crop in any section where corn can be profitably grown. Pk. 50c., bush. $1.75.

Longfellow. An eight-rowed, yellow flint sort, with ear ten to twelve inches long. The cob is quite small, with kernels of good size. Considered safe for planting in Massachusetts. Pk. 50c., bush. $1.75.

Sanford White. A white flint variety, used considerably in Rhode Island for grinding both for stock and culinary purposes, and very extensively used in Vermont for ensilage. Pk. 40c., bush. $1.50.

Pride of the North. A Dent variety which is very early. Will mature a crop in this section easily, unless season is very unfavorable. Ears are rather small for a Dent variety, about eight inches long, having from twelve to sixteen rows. Stalks are from six to eight feet high. Also used for ensilage. Pk. 40c., bush. $1.50.

White Cap Yellow Dent. Nearly as early as the Pride of the North; with large ears. The grower and introducer of this wonderful corn says he will guarantee this corn to mature in ninety to ninety-five days from planting, and to grow a larger crop on poor soil than any other corn in the world. Stalks are six to seven feet high, with abundance of foliage, making it an excellent sort for ensilage. Ears are from eight to ten inches long, well filled out and have from sixteen to eighteen rows. Kernels are of the true Dent type, sweet and nutritious, the outer end white and the balance yellow, which gives it the name "White Cap." Pk. 40c., bush. $1.50.

Leaming. An early Yellow Dent corn, which is growing more popular in New England every season for ensilage. Pk. 40c., bush. $1.40.

Red Cob Ensilage. (Bushnell's.) A pure white corn, with red cob. Probably grown more extensively for ensilage than any other variety. Pk. 35c., bush. $1.25.

Southern White. This is grown for us in the south, especially for seed, is the true Southern White, having a round, flat kernel, whereas that offered by most other seedsmen is the variety having a pointed kernel, which is not as leafy, nor is it generally grown by those engaged in growing corn for seed; is, therefore, not as well cured, and usually does not germinate nearly as well as the other varieties which have the usual care given to corn grown especially for seed. The strain we offer costs a little more, but is well worth the difference. Pk. 40c., bush. $1.40. 1

THE EUREKA ENSILAGE CORN.

THE BEST OF ALL.

Will Produce More Tons of Ensilage Per Acre Than Any Other Variety in Cultivation.

ANOTHER year's use of the Eureka by our old customers and many new ones, their entire satisfaction with it, and unqalified testimonials as to its superiority, only proves that what we have said of it was correct, and substantiates our claim that it is the best of all and will produce more tons of ensilage per acre than any other variety in cultivation. It is a well-known fact that plants grown in a southern climate have more foliage than those grown in a northern. The southern farmer uses no other hay for his working stock than the leaves of corn; not by cutting down the stalks as we do, but by stripping the blades from the stalks. Therefore, it is desirable to grow corn with the largest amount of foliage possible. In this respect there is a great difference in what is called Southern Corn, some varieties producing nearly double the amount of green fodder that others do. The Eureka was obtained by carefully selecting for fifteen years from the True Southern White the stalks which produced the largest amount of foliage and greatest number of ears, with the result, a variety which, with proper fertilizing, will grow from fourteen to eighteen feet high, and often have four and five ears to the stalk. This selection was made by one of the most reliable growers in Virginia, and who, since its introduction, has continued to grow seed especially for us. Since its introduction, there has been an evident improvement in it in regard to earliness. We mention this because many desire that a variety shall be early enough to produce ears well toward maturity, before time to cut for ensilage, and we feel that if there has ever been any objection to this corn because it was late, it has been removed by this improvement. Pk. 60c., bush. $2.00, 3 bushels $5.00. No charge for bags.

SEE PHOTOGRAPHIC ILLUSTRATION ON NEXT PAGE.

THE FARM JOURNAL has in the course of a year many articles on CORN. | If you subscribe for five years it will cost you but 12 Cents a Year.

The ✻ Eureka ✻ Ensilage ✻ Corn.

THE BEST

The above illustration is from a photograph of a field grown by Mr. Flagg, of Boylston, Mass., who says of it: "After planting it for the past fifteen years I can safely say there is nothing that can compare with it."

WHEN, in 1899, we published the letter from Mr. Geo. D. Leavens, of Tower Hill Farm, Grafton, Mass., in which he said that a careful estimate showed that his crop of Eureka Ensilage Corn yielded at the rate of *thirty-eight tons per acre*, we thought that the limit had been reached, but the past season has shown a yield which so surpasses anything of previous years that wonderful or enormous seem but tame terms to apply to it. The letter from Mr. Reynolds shows what this record-breaking yield was—*sixty-four tons per acre; over 65 per cent larger than the largest yield ever before obtained.* Those who are acquainted with Mr. Reynolds know that he is a man of undoubted veracity and also one who is conservative in his judgment, and we have this to say regarding his letter, that we know of no one else from whom we would rather have received it. The letter will show Mr. Reynold's position. It is one which he has occupied for several years. He is well known as a successful farmer—one of the best of the many good ones in Worcester County. Under his management a large acreage is cultivated, comprising nearly everything that the farmer and market gardener usually grows, and his succsss with all is very marked. His success with the Eureka, while especially remarkable, was therefore not so greatly surprising to us as it would have been had we not known how successful he was with whatever he cultivated. The premium referred to below was for the best acre of ensilage corn in Worcester County.

WORCESTER, MASS., Dec. 1, 1901.

ROSS BROS., Worcester.

The field of Eureka Ensilage Corn that won the Twenty Dollar Prize was planted June 10th in hills 30 inches apart each way. It eared out splendidly and was cut September 10th and was carefully estimated at 64 tons to the acre. I am confident no other variety can equal the Eureka for ensilage.

Yours truly,

J. F. REYNOLDS,
Farm Supt., Worcester Insane Hospital.

PRICE: **Pk., 60c.; bushel, $2.00; 3 bushels, $5.00.**
No charge for bags. See also page 10.

If you do not buy directly of us, be sure and see that bags are marked: Eureka Ensilage Corn, from Ross Bros. It is not the "real thing" unless so marked.

Seed of Eureka Ensilage Corn costs more than that of other varieties, but the Eureka is well worth the difference. **It is the Best.—The Best is the Cheapest.**

CUCUMBER

Early Russian. The earliest cucumber grown; fruit produced in pairs.

Early Frame or Short Green. An excellent sort, both for table use and pickling. Plants very vigorous and productive. Fruit straight, handsomer, smaller at each end, bright green, lighter at the blossom end.

Early Cluster. Short, borne in clusters near the root. Popular for home use, but little grown for market.

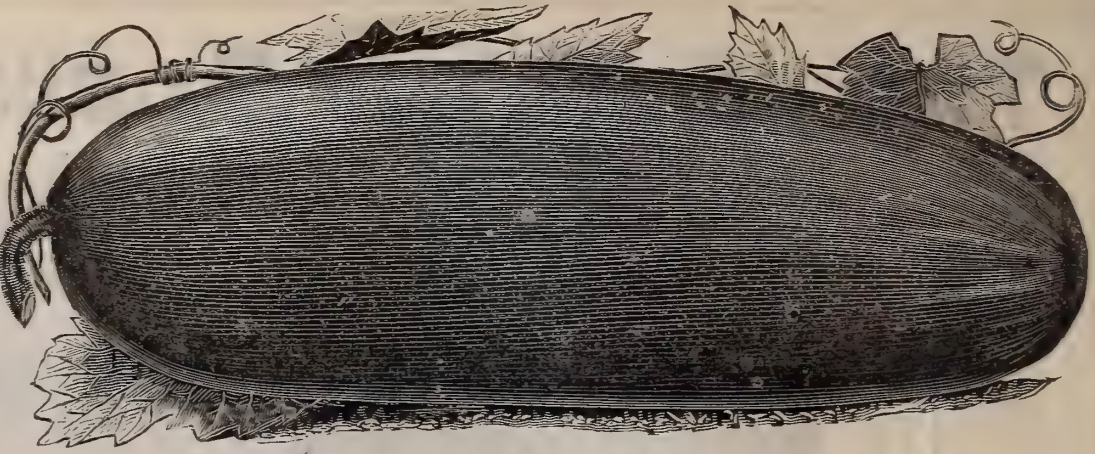
Nichols' Medium Green. Thicker than the White Spine, and full at both ends. Skin light green and very smooth. Handsome in appearance, and of fine quality.

White Spine Improved. The most popular variety for market. Fruit straight and handsome. Used extensively for forcing.

Evergreen White Spine. Longer than preceding strain, of equal quality; also used for forcing.

New Japanese Climbing. Vines vigorous, with strong, grasping tendrils, which enables it to climb trellis, wire netting, brush, or any other suitable support.

Improved Long Green. Vines vigorous and productive. Fruit long, firm and crisp. Makes one of the best of pickles, and when ripe is the best of any for sweet pickles.



THE EMERALD.

Boston Pickling. One of the best for pickling. Fruit short, pointed at each end, bright green, uniform in size, very productive, and of superior quality.

All varieties, pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 65c.

A New Cucumber THE EMERALD

The introducers say of it:—"The Emerald retains every good point in the best strains of White Spine, and, in addition, possesses that rich, dark green color which has been so long sought for, but never before obtained. It is strictly an evergreen, retaining its color until fully ripe. On sight, its distinct dark green and spineless skin attracts the attention of everyone interested. The fruit sets early, and is long, straight and handsome. As a slicer the flesh is peculiarly crisp and tender, and it also makes an excellent pickle." Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 85c.

Dandelion.

American Improved. Thick leaved. Pkt. 10c., ¼ oz., 25c., oz. 40c., 2 oz. 70c., ¼ lb. $1.00, lb. $4.00.

French, or Common. Pkt. 5c., ¼ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 75c., lb. $2.50.

Arlington. Leaves finer than the American Improved; very popular in Boston market. Pkt. 10c., ¼ oz. 25c., oz. 40c., 2 oz. 70c., ¼ lb. $1.25., lb. $4.00.

Kohl Rabi.

Early White Vienna.

Early Purple Vienna. Pkt. 5c., ¼ oz. 10c., oz. 15c., 2 oz. 30c., ¼ lb. 50c.

Leek.

American Broad Flag. The standard variety. Pkt. 5c., ¼ oz. 10c., oz. 15c., 2 oz. 25c., ¼ lb. 40c., lb. $1.25.

Kale. (Borecole.)

Green Curled Scotch. Of dwarf and compact growth, leaves curled and crimped, the whole plant resembling a bunch of moss. The best variety for general use. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c.

Endive.

Moss Curled.

Large Green Curled. A large, coarse, strong-growing variety, which by tying up can be made to form finely; blanched centers of good quality. Outer leaves well cut, and bright, deep green each. Pkt. 5c., ¼ oz. 10c., oz. 15c., 2 oz. 25c., ¼ lb. 40c.

Egg Plant.

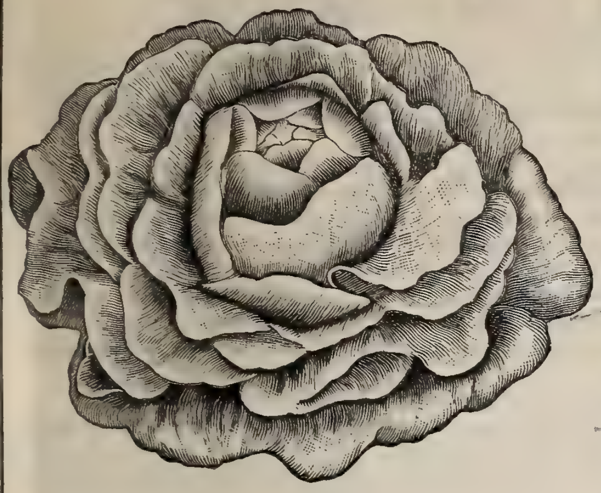
New York Improved. The standard variety in all sections of the country. Pkt. 10c. ¼ oz. 20c., oz. 35c., 2 oz. 60c., ¼ lb. $1.00.

Martynia.

A strong-growing, hardy annual plant with curiously shaped seed pods, which, when young and tender, are highly prized for pickling. The pods are produced in great abundance, and should be gathered when less than half grown, as after the hardening of the flesh they are worthless.

Proboscidea. The common variety. Pkt. 5c., ¼ oz. 20c., oz. 35c., 2 oz. 60c., ¼ lb. $1.00.

THERE will, perhaps, be no better place in this catalogue than here to call the attention of those who reside at a distance to the fact that we are located in probably the most critical section of the country in regard to the quality of seeds demanded, not only regarding germination but that which is really of much greater importance, the character or purity of their products. Through the helpful influences of the three large horticultural societies of Massachusetts, the Massachusetts Horticultural of Boston, the Worcester Horticultural, and the Springfield Amateur Horticultural, a larger part of those interested in the culture of vegetables, flowers and fruits, both professionals and amateurs, have probably become better informed regarding the true types of varieties than in any other section of the same area, and probably nowhere is there a larger proportion of space devoted to the culture of vegetables, flowers and fruits than in Massachusetts. While we have not just now at hand that by which we could verify it, we nevertheless think we are correct in making the statement that the combined membership of these three horticultural societies is greater than that of any other three in the United States. That the yearly attendance and number of exhibitors is greater is beyond doubt, and that the reports of their awards are more widely read and their general influence more far-reaching is probably equally certain. The Worcester Horticultural Society holds weekly competitive exhibitions from early spring until late in the fall, and in Boston they are held the entire year, and while the Society at Springfield does not hold weekly exhibitions their special ones of Sweet Peas, Roses, etc., are noted all over the world, while their exhibits of vegetables, fruits and flowers are of a high order. The systematic manner in which all these exhibitions are conducted, their liberal premiums and fair awards, made by competent judges, have caused a sharp rivalry between both large and small cultivators and taught them which the best varieties are and **what they are**, that is, the true types In consequence, the trade in Massachusetts demands not only seeds of the best varieties and those which will grow, but also those which will produce crops **true to name.** This is the condition we have to meet—and **we do it.** Those who know us best know how rapidly our trade has increased, and also what has caused it to increase—seeds that will grow—**grow true to name**—and sold at reasonable prices. Among our largest customers in this vicinity are those who are constant competitors at our exhibitions, and often at Boston and Springfield, with satisfactory results, often in the shape of "First Premiums," and this is what we are striving to impress upon the class to whom we are writing, that we sell seeds which meet the wants of the most critical trade of critical Massachusetts—prize strains which will please others as well.



Hittinger's Belmont.

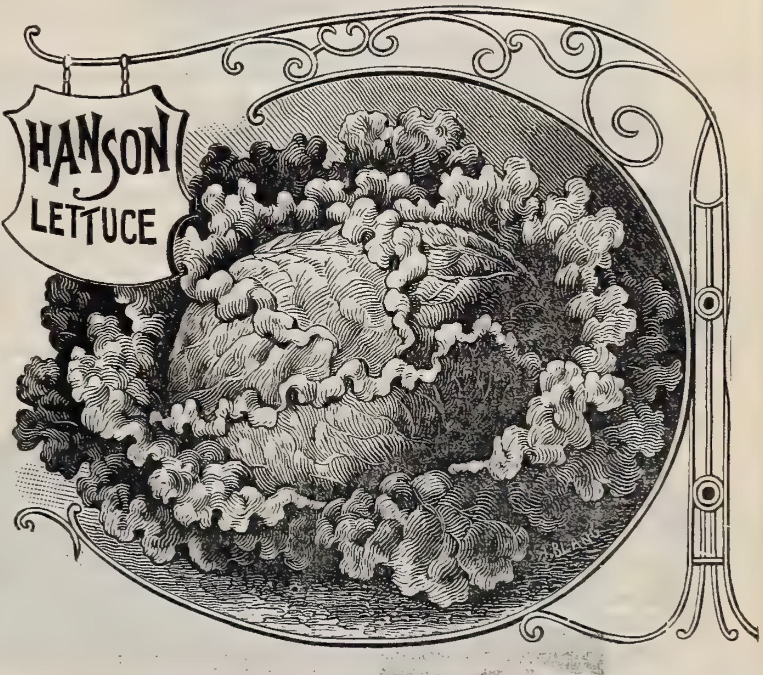
LETTUCE

White Seed Tennis Ball, or Boston Market. Used more extensively for forcing under glass than any other sort. Heads small but very compact, and of good quality. But little used for out-door planting.

Hittinger's Belmont Forcing. A choice strain for forcing in the greenhouse. Much larger than the White Seeded Tennis Ball and a little later. Quality excellent. Very profitable for market. Not recommended for out-door culture.

Big Boston. Like the Belmont Forcing, this is nearly identical in general appearance with the White Seed Tennis Ball or Boston Market, but is much larger, often growing double the size. It grows to a large solid head, is crisp and free from bitterness, and is especially desirable for mid-season or late planting.

Black Seed Tennis Ball. Used in New England for the first out-door planting, and is the first to head. Used in New York and other sections for forcing. Heads medium size and compact, leaves thick, dark green, and when quickly grown, crisp and tender.



Early Curled Simpson. (White seed.) Early, forms a small loose head, leaves much curled, of excellent quality, and entensively cultivated both under glass and out-doors.

Black Seed Simpson. Much larger than the preceding, but not as much curled. Forms a large loose cluster of leaves rather than a head, leaves light yellowish green; a good variety and extensively grown.

Early Curled Silesia. An old standard sort, very popular for home gardens and market.

Boston Fine Curled. A variety highly esteemed for earliness, beauty of form and good table qualities; beautifully curled.

The Deacon. An excellent sort, medium early, heads of good size, with few outer leaves, which are deep green, the inner ones blanching to a bright yellow. Will remain fit for use a long time. We consider it one of the best early summer varieties.

Prize Head. This variety has no superior where a thin, tender, crisp and sweet lettuce is wanted for the home garden or local market. Being so thin leaved and tender it, of course, wilts very quickly after cutting, and is not suitable for distant markets. Plants large, deep green, so washed with red as to appear more red than green, forming a head of a dense mass of leaves, rather than one like a cabbage, and very slow to run to seed.

Henderson's New York. The introducers say it is of unusual size and solidity of head, with but little tendency to run to seed; often weighing nearly four pounds, with heads almost as solid as an Early Summer cabbage; blanches itself naturally, is crisp, tender and of excellent flavor, and always free from bitterness. Is not a forcing variety, but is certainly one of the best varieties for summer use ever introduced.

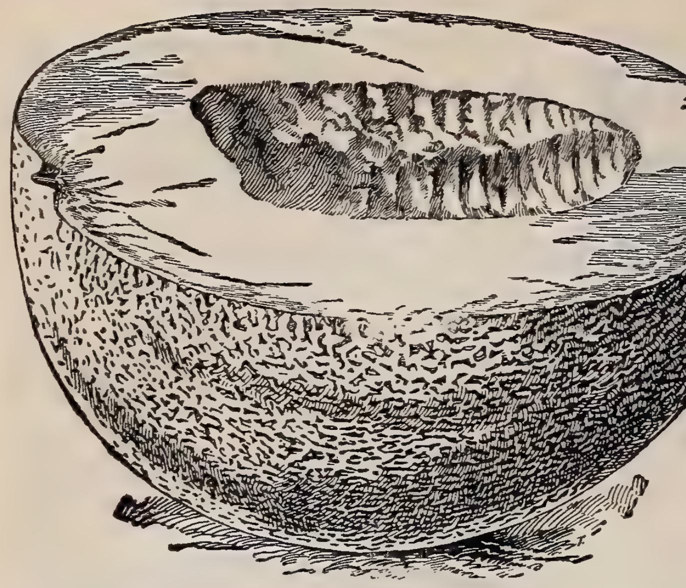
Hanson. We can recommend this as one of the very best. Outer leaves white, and usually curved and twisted at the base. Extensively grown by market gardeners; always sure to make large, handsome heads; of excellent quality.

All varieties at uniform prices. Pkt. 5c., ½ oz. 10c., oz. 15c., 2 oz. 25c., ¼ lb. 40c., lb. $1.50.

New Musk Melon Petoskey or Paul Rose.

THIS excellent melon is a cross of the Osage with the Netted Gem, and combines the sweetness of the former, with the general appearance of the Gem. It originated with a large and very successful melon grower, who claims that he realized twice as much from an acre of this melon as from any other sort. In shape it is oval, about five inches in diameter, and has the fine netting of the Netted Gem or Rocky Ford. The flesh is firm, very thick, of a rich orange red similar to that of the Osage, but sweeter avd finer flavored, and is pronounced by all who have used it to be the most uniformly good melon of any in cultivation.

It is seldom that a melon combines the superb quality of this variety, with the necessary features for shipping. The Paul Rose, however, surpasses all others as a shipper and long keeper. We know of no variety which equals it as a market shipping melon, nor of any which surpasses it for the home garden. Pkt. 5c., oz. 15c., 2 oz. 25c., ¼ lb. 35c., lb. $1.20.



COSMOPOLITAN MUSK MELON.

MELON--Musk.

The Cosmopolitan. Claimed by the introducers to be **the most beautiful of** the Green Fleshed Melons. Fruit slightly oval, nearly round. Color light green, covered at maturity with silver gray netting. Flesh green, firm, sweet and high flavored. Pkt. 5c, oz. 10c, 2 oz. 15c, ¼ lb. 25c, lb. 75c.

Extra Early Hackensack. Of good size, round, flattened, green flesh, netted.

Surprise. Very early, medium size, flesh salmon color.

Green Nutmeg. Medium size, globular, slightly ribbed, sweet and of fine flavor.

Miller's Cream. Of medium size, flesh thick, salmon color, sweet and melting.

Montreal Market. The largest round melon, shape slightly oval; sparsely netted, flesh green, thick and delicious.

Banana. Grows often eighteen inches long; of medium quality.

Bay View. One of the largest, most productive and best flavored melons grown. Shape oblong, flesh green.

Long Yellow. Large, ribbed, slightly netted; flesh salmon color.

Emerald Gem. A small round melon of superior flavor. Flesh salmon color, very thick and fine grained; skin dark green. One of the best for home use, and growing more popular every year as a market variety on account of its uniformity; excellent quality.

Each of above, pkt. 5c, oz. 10c, 2 oz. 15c, ¼ lb. 20c, lb. 60c.

See also description of Petoskey or Paul Rose,

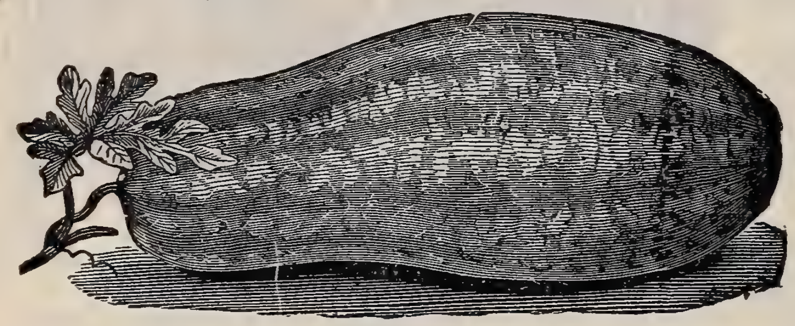
MELON--Water.

Phinney's Early. Medium size, oval; thin rind, very productive, sweet and melting.

The Boss. Medium size, thin rind, brilliant red flesh; solid, of delicious quality.

Kolb's Gem. Nearly round, dark green, with narrow stripes of lighter shade; flesh bright red, quality medium; excellent for shipping.

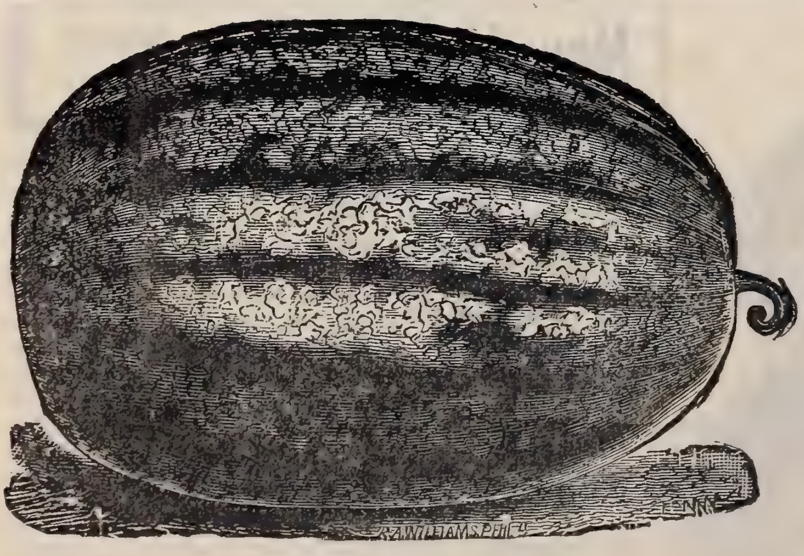
Mountain Sweet. An old popular variety. Flesh red, firm and sweet.



Mountain Sweet Watermelon.

Black Spanish. Medium size, round; thin rind, excellent quality; vines small; a sure cropper.

Mammoth Iron Clad. Shape oblong, thick, firm and solid, flesh red, rich and sugary; late.



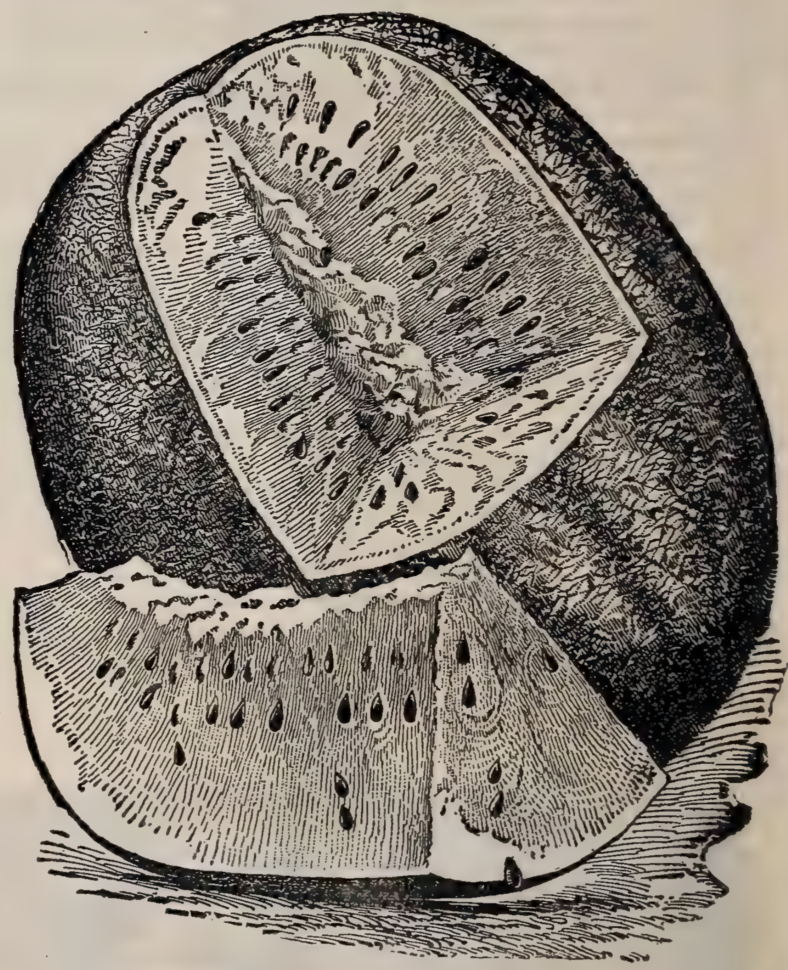
CUBAN QUEEN WATERMELON.

Cuban Queen. Beautifully marked, light and dark green, solid, crisp, bright red flesh, large; a good shipper.

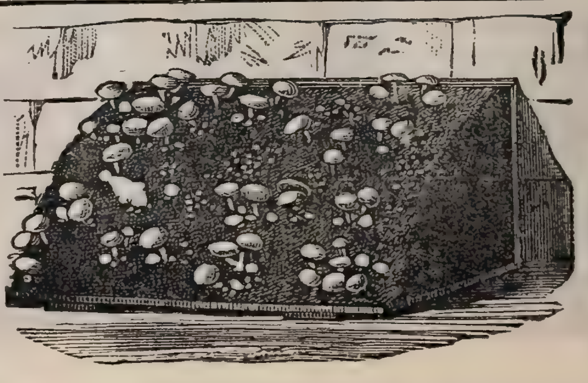
Citron. (Red seeded.) For preserving only.

All varieties, pkt. 5c, oz. 10c, 2 oz. 15c, ¼ lb. 20c, lb. 60c.

The Sweetheart. Fruit large, oval, very heavy. Rind thin but firm; flesh bright red, firm, solid, but very tender, **melting and sweet.** Remains in condition for use longer than most sorts.



SWEETHEART WATER MELON.



Mushroom.

Spawn. Lb. 15c, 8 lbs. $1.00.

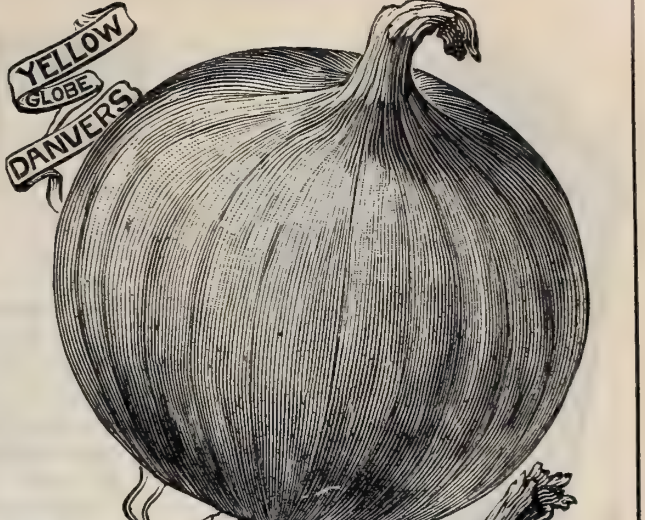
Mustard.

White Brown.

Pkt. 5c, oz. 10c, ¼ lb. 15c, lb. 40c.

ONION

—GLOBE-SHAPED VARIETIES.—
Eastern Grown Seed.

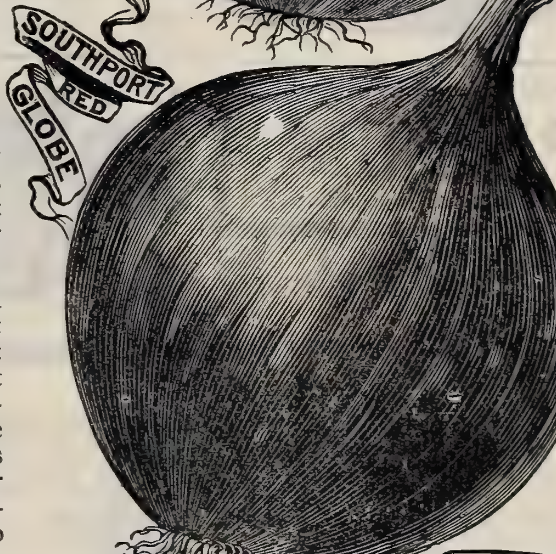


The Heaviest – The Best Keepers – The Handsomest
The Quickest to Sell – The Money Makers.

TO NO other branch of our business do we give more attention than to the growing of onion seed. We have for several years paid especial attention to the varieties which are globe-shaped, personally selecting our stock in the field, and have to offer THE BEST THAT GROWS.

It must be obvious to all that a globe-shaped onion occupies no more room when growing than a flat one of equal diameter, and equally obvious that the first would be the heavier when mature; therefore the yield per acre must be much larger. The globe-shaped onions all have thicker outer skins than the flat, bear handling better, and consequently are much better keepers. They are also of more attractive form, selling easier and usually at higher prices. **The globe-shaped varieties are the ones to grow for profit.** To grow them the right seed is necessary.

That there is a vast difference between the results obtained from the use of eastern and western grown stocks all careful and candid observers will admit, and, while we are not prepared to say here that seed which will produce crops of uniformly globe-shaped onions cannot be grown in California, we can truthfully say, after years of careful observation, that we have yet to see a crop grown from western seed that could at all compare in this respect, nor for that matter in any other, with the many grown from our Selected Eastern Grown Seed.

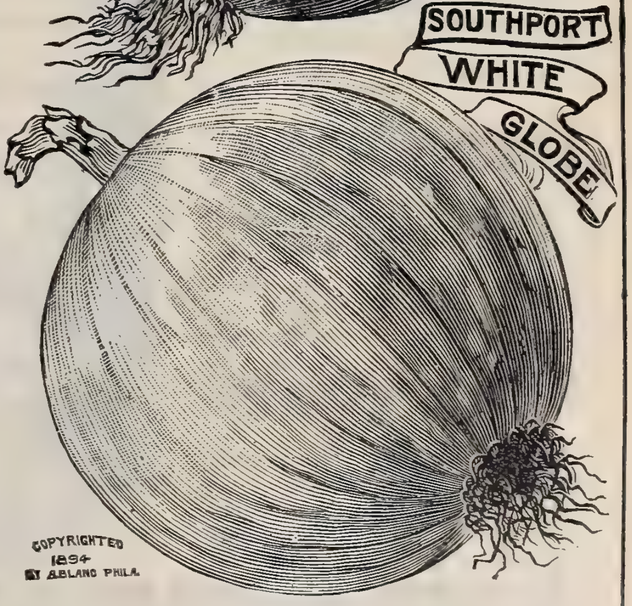


Yellow Globe Danvers. Eastern Grown. This variety is more largely grown than any other, and in Massachusetts the demand for seed of it by far exceeds that for all other varieties combined. The strain which we offer is much different from the old type, that being a flat bottomed onion while the upper half somewhat resembled this. This more nearly resembles the Southport type, is of true spherical form, only differing from the Southport in that it is a very little flattened at the top and bottom. We have for several years been selecting in the field such bulbs as were strictly true to the type and have developed a very superior strain. Our onions when selected for seed and spread upon the storage floors excites the admiration of all who see them. As we have said above, this type is the one to grow for profit.

Southport Yellow Globe. Very similar to our Yellow Globe Danvers, a little more elongated and possibly a little later in maturing but not differing nearly as much in that respect as commonly supposed.

Southport Red Globe. Identical in form with the preceding. The handsomest of all onions and is being grown to greater extent at present than ever before.

The preceding varieties each, pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 50c., lb. $1.50.

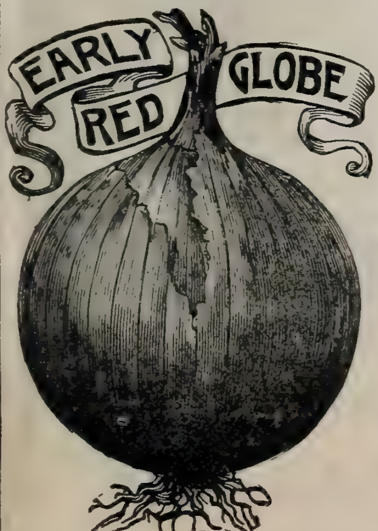


Southport White Globe. Of true globe shape. Not largely grown but brings the highest prices in market of any variety. A much better keeper than any other white variety. Pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 75c., lb. $2.60.

Extra Early Red Flat. The earliest red variety. Pkt. 5c., ½ oz. 10c., oz., 15c., 2 oz. 25c., ¼ lb. 35c., lb. $1.15.

Early Yellow Cracker. The earliest yellow variety; very flat, mild; needs care in handling to insure keeping; very desirable for home markets. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 50c., lb. $1.50.

Early Red Globe Danvers. While not all of a crop of this has as yet been as perfect in shape as the illustration, a proportion of them have and the balance somewhat approaching it. It might perhaps be better described as a very thick onion rather than globe-shaped. It is nearly as early as the Early Red Flat, has a firm skin, is of fair size and good color. It is remarkably free from the tendency to produce stiff necks or scallions. It is growing in favor, to which its earliness and other good qualities well entitle it. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 50c., lb. $1.50.



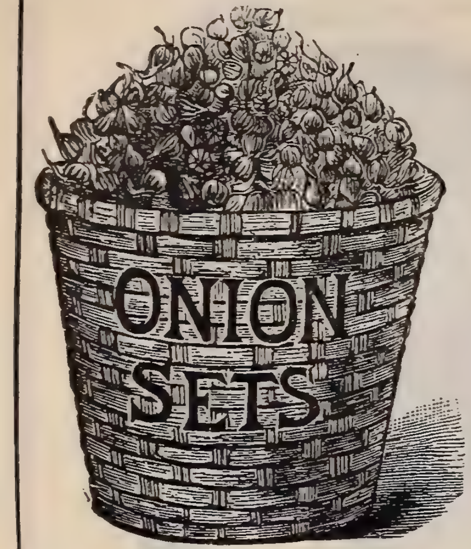
White Portugal or Silver Skin. A white, thin skinned variety, of especially mild flavor and very tender. It grows to a good size and is early. Desirable for the market gardener for early use and for the home garden because of its tenderness and mild flavor. Pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 75c., lb. $2.50.

Yellow Globe Danvers. Best Western Stock. Offered by many leading seedsmen as their best. Pkt. 5c.. ½ oz. 10c., oz. 15c., 2 oz., 25c., ¼ lb. 35c., lb. $1.00.

Red Wethersfield. A variety which has been extensively grown but which in most of the onion-growing districts of New England is now but little used, and while the demand for red onions seems to be increasing, that for seed is largely for the globe-shaped varieties, planters having learned the superiority of this class. We offer, however, a choice strain of seed grown from selected bulbs. Pkt. 5c., ½ oz. 10c., oz. 15c., 2 oz. 25c., ¼ lb. 35c., lb. $1.00.

Prize Taker. One of the largest varieties in cultivation. Skin thin, light straw color, flesh pure white and is extremely mild and sweet flavored. It is quite sure to bottom, but is late and is not a good keeper. It is largely used for sowing early in the hotbed for transplanting, and for that purpose is an excellent sort. Pkt. 5c., ½ oz. 10c., oz. 20c., 2 oz., 35c., ¼ lb. 50c., lb. $1.50.

The Economy Which Leads to Buying the Cheapest Onion Seed is Really Great Extravagance. ✤ The Best is the Cheapest.



ONION SETS.

Prices Variable.

White. Qt. 20c., ½ pk. 65c., pk. $1.25.

Yellow. Qt. 20c., ½ pk. 65c., pk. $1.25.

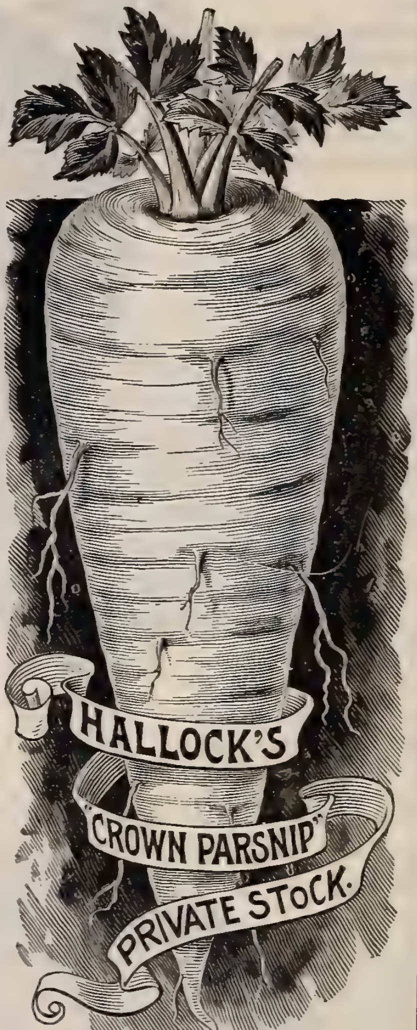
Potato Onions. Qt. 15c., ½ pk. 50c., pk. 90c.

Shallots. Qt. 20c., ½ pk. 65c., pk. $1.25.

White Shallots or **White Multipliers.** Qt. 15c., ½ pk. 50c., pk. 90c.

If by mail add 10 cents per quart to price.

PARSNIP



Arlington Long Smooth. A selected strain; roots extra long; desirable for deep mellow soil.

Hollow Crown. Roots shorter than the preceding; succeeds where that would not, that is on shallower soils. We offer a choice strain of New England grown seed.

Each variety, pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 20c., lb. 50c.

Parsley

Champion Moss Curled.

Extra Double Curled.

Each, pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 75c.

Pumpkin

Small Sugar. The popular variety in New England for pies; fine grained and sweet. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 20c., lb. 60c.

Large Cheese or **Kentucky Field.** Shape flat, skin of a rich cream color when ripe, flesh tender and of fine quality. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 20c., lb. 50c.

Mammoth Tours. One of the largest in cultivation; good for feeding stock. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 20c., lb. 60c.

Connecticut Field. The standard variety for feeding stock. Pkt. 5c., ¼ lb. 10c., ½ lb. 15c., lb. 25c.

WALNUT HILL FARM.
C. L. HARTSHORN,
199 May Street.

Worcester, Mass., Dec. 1, 1901.

ROSS BROS. Gentlemen:—I have used your seeds largely for several years with good results. They have proved true to name and of good germinating power. Yours truly, C. L. HARTSHORN.

PEPPERS

Large Bell. Large, bell-shaped, thick fleshed, and less pungent than some other sorts. Good for filling.

Sweet Mountain. Fruit very large, often eight inches long by two in diameter. Flesh thick, sweet and mild.

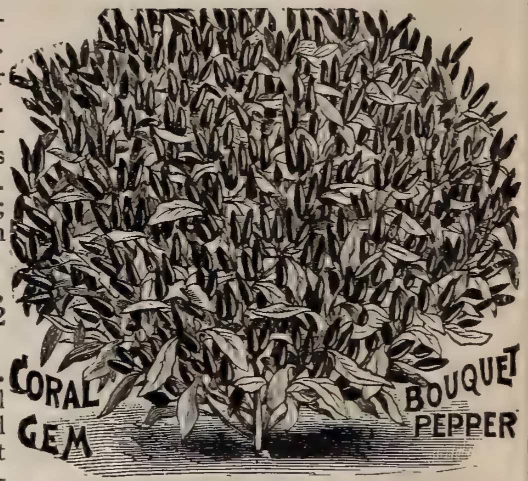
Ruby King. The handsomest of the large sorts, mild and sweet.

Large Squash. Fruit flat or tomato shaped, and somewhat ribbed, flesh thick and slightly more pungent than other large sorts, early and sure to mature.

Cayenne. Best for seasoning pickles; very hot.

Red Chili. Used for making pepper sauce. Pods bright red, slender, about two inches long and very pungent. Requires a long season; seed should be sown early in hot bed.

Each of above, pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 75c.



Coral Gem Bouquet. The best of the small sorts. Its small red pods are so thickly set as to give it the appearance of a bouquet. Very ornamental, as well as useful. Pkt. 10c., ½ oz. 20c., oz. 40c.

PEAS ✿ Extra Early Varieties.

Within our acquaintance with the seed business there has not, to our recollection, been such a shortage in the supply of peas as now.

Prices, therefore, are higher than last year, especially on the earlier varieties, and the supply is so limited that we suggest to customers that they order early, otherwise they will be liable to disappointment.

Alaska. A variety which has been very popular and is yet extensively grown by market gardeners and canners. Its popularity has been due to its earliness and productiveness, as it is inferior in quality to the early wrinkled sorts. Like all the hard round peas it is hardy and has the desirable feature of uniform ripening; nearly the whole crop can be gathered at first picking. Peas small, bluish green. Pods small, but well filled and abundantly produced. Vines two to two and one-half feet high.

½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 80c., pk. $1.50, bush. $5.50.

The following three early hard sorts are practically identical, as are all of this class listed by different seedsmen under a multiplicity of names.

If there is any difference between the stocks of different seedsmen, it is one of purity, not of type.

The stocks we offer have been carefully grown and will be found equal in all respects to those of this class offered by other seedsmen regardless of what name they may choose to attach to them.

Improved Dan. O'Rourke. | **First and Best.**

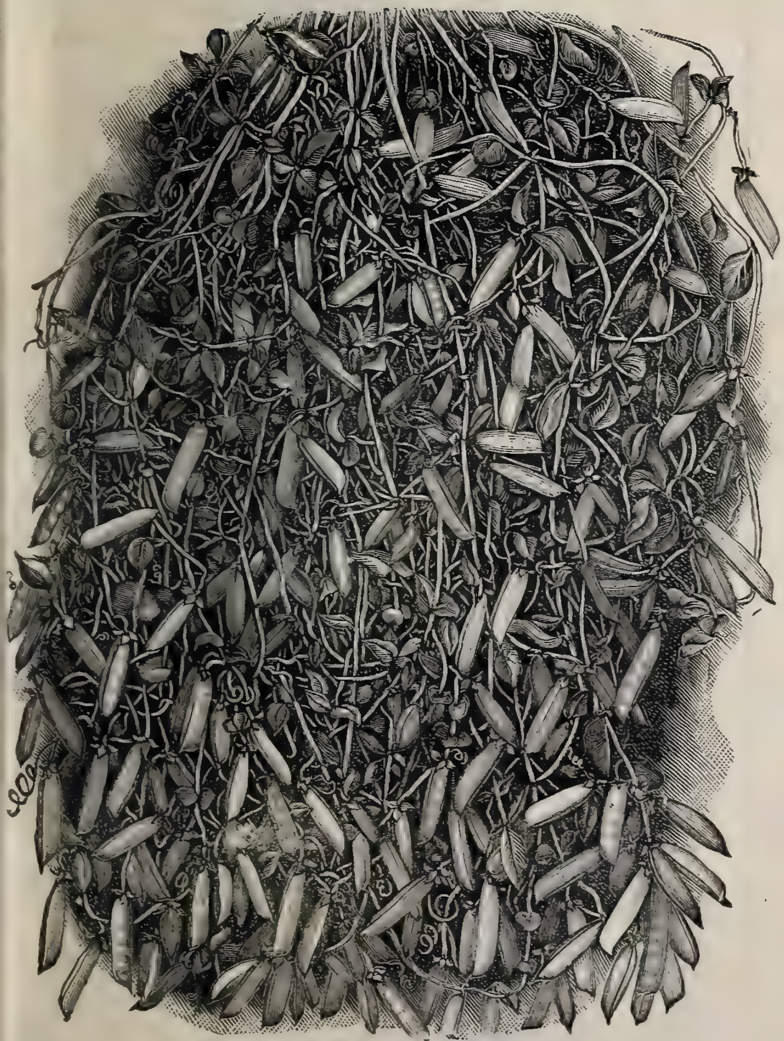
Philadelphia Extra Early.

Each variety, ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 75c., pk. $1.35, bush. $5.00.

THE GRADUS PEA

OF all the varieties of vegetable that have been introduced for many years nothing has sprung into popularity sooner than the Gradus Pea, and nothing has been more deserving of it. Both the pods and peas are nearly as large as the *Telephone*, and it ripens with or very closely to the *Alaska* and other extra earlies. Its quality is of the best, nearly equal to the Champion of England, which has always in this respect been the standard with which all varieties have been compared. That it will eventually supplant the small early varieties is very probable if not certain. While the great value of it has, as yet, been apparent to only comparatively a few of the many who cultivate peas, the demand for seed has been far in excess of the supply, and when all have recognized its merit will probably be greater than it has ever been for any other variety. In its habit of growth the vine is strong and vigorous, about two and one-half feet in height, foliage large, closely resembling the Telephone in general appearance, although much dwarfer. The pods are nearly as large as those of that variety and are well filled with peas of enormous size, which are ready for the table so soon after the Alaska that the difference in time is harly worth noting, their quality, however, being so superior that it can hardly be compared with that of the Alaska. The combination of *earliness*, *large size and superior quality* places it far in advance of any other. While great productiveness is generally claimed for it, reports regarding this are somewhat conflicting. Our own observation has led us to the conclusion that in order to have the vine productive the soil must be in a richer condition than is generally considered necessary for growing peas, and that if it is it will be found to be a fairly productive variety. Owing to the very high price at which seed of the Gradus has thus far sold, growers have only retained barely enough for stock seed for growing contract orders, so that in no year since its introduction have they been able to accumulate a surplus. Unfortunately the conditions for securing a crop last season were worse than the previous two unfavorable ones, so that there is less seed in the hands of the dealers this season than for two years. Those who wish to secure seed must order early. The variety called Prosperity is identical with this, and for a continuation of that name there seems to be no good reason. ½ pt. 15c., pt. 30c,, qt. 50c., 2 qts. 90c., ½ pk. $1.50, pk. $2.75.

GREGORY'S EARLY SURPRISE PEA



Gregory's Early Surprise.

THIS pea was introduced by the veteran seedsmen, Jas. J. H. Gregory & Son, who at the time of its introduction said of it:—"It is the very earliest of the Wrinkled varieties,—the Station, Eclipse, American Wonder and Nott's Excelsior not excepted. Compared with the early hard sorts it will be found to be decidedly earlier than many of them, including the well-known Alpha and Maud S., while it is as early as the very earliest of them. Vines grow 24 inches high and need no bushing; pods well filled, containing six or seven peas; not as large as the American Wonder, but is a far better cropper and ready for the market days before it.

"Gregory's Surprise is one of Mr. Horsford's creations, he having obtained it by crossing 'Earliest of All' on the 'American Wonder,' and the result is a wrinkled pea as early as the 'Earliest of All' with the quality of the 'Wonder.' If it has the hardiness of its parent, 'Earliest of All,' the knell of the early class of hard peas has struck; for the public well know that they are inferior in quality, and will cease buying them as soon as they can find a wrinkled pea in the market". Had it not been that the Gradus was introduced at about the same time as the Surprise this would, undoubtedly, have become very popular. As it is, it is a desirable variety on account of its earliness and superior quality, and will with the Gradus, without doubt, displace the hard early sorts, which to some extent they have already done. ½ pt. 10c., pt. 20c., qt. 35c., 2 qts. 60c., ½ pk. $1.00, pk. $1.75.

NEW PEA Admiral Dewey

CLAIMED BY THE INTRODUCERS TO BE THE LARGEST PODDED PEA EVER OFFERED.

THIS variety is from one of the oldest firms of pea-growers in the country, whose description is as follows:—"During the season of 1894, while watching the growth of a small sample of a new and most desirable pea sent us from Carlisle, England, we found a few vines entirely different from the main crop, and entirely distinct from any pea we had ever seen. These few vines were carefully removed, and succeeding crops have shown them to be remarkably uniform and distinct. This is without exception the largest podded pea of which we have any knowledge, and when to this is added the heavy cropping and highest quality, it can readily be seen that it stands at the head of its class. Height three and one-half feet; foliage, vine and pod rich, dark green, remarkably healthy and vigorous, producing in abundance pods of largest size, frequently six inches in length, beautifully shaped, well filled with peas of largest size, tender and first-class flavor; seed green, wrinkled Undoubtedly the best of all the class of long vine, large podded peas." ½ pt. 10c, pt. 20c, qt. 35c, 2 qts. 60c, ½ pk. $100, pk. $1.75.

We Make SPECIAL PRICES To Market Gardeners and To All Large Buyers.

PEAS

Dwarf Extra Early Varieties.

The first three of these ripen very closely to the hard early sorts and are much superior in quality.

American Wonder. The vine is very dwarf but of stout branching habit, about 10 inches high. A fairly productive sort, pods of medium size and closely filled with peas of good size which are of the best flavor. A desirable variety for the private garden but not equal to the Nott's Excelsior for the market garden. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 55c., ½ pk. $1.00, pk. $1.75, bush. $6.50.

Nott's Excelsior. This is similar to the American Wonder but superior in nearly all respects. The vine grows about 14 inches high, is of vigorous habit, exceptionally uniform in growth and wonderfully productive. The pods are larger than those of the Wonder and well filled. The peas are of fine flavor. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 55c., ½ pk. $1.00, pk. $1.90, bush. $7.00.

Premium Gem. A popular variety, growing about 15 inches high. Pods are a little larger than those of the Wonder, and though not generally so closely packed with peas are yet well filled. The peas are wrinkled, of good size and flavor. Considered by many to be superior to the Little Gem. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 50c., ½ pk. 90c., pk. $1.60, bush. $6.00.

McLean's Little Gem. An old favorite and yet largely grown. Height about 18 inches. Pods are well filled. Peas of good size, green, wrinkled, and of excellent quality. A productive and desirable variety. A little later than the preceding varieties. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 50c., ½ pk. 90c., pk. $1.60, bush. $6.00.

Second Early, Medium and Late Sorts.

McLean's Advancer. A green, wrinkled marrow of extra quality. The standard second early in Boston market, and grown extensively everywhere. Height, 2½ feet. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 75c., pk. $1.35, bush. $5.00.

Hosford's Market Garden. A wrinkled variety; ripens closely to Advancer; of branching habit, very stocky. Peas medium size, of good quality. Height, 2 feet. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 75c., pk. $1.35, bush. $5.00.

Bliss' Abundance. Similar in general appearance to the Hosford's Market Garden but taller. Pods from 3 to 3½ inches long. Peas of good size and excellent flavor. Very productive. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 40c., ½ pk. 70c., pk. $1.25, bush. $4.50.

Heroine. A distinct and valuable variety. Foliage even and luxuriant, pods long, handsome and well filled with large peas of fine flavor. Remarkably true and fixed in its habit of growth. Height, 2½ feet. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 75c., pk. $1.35, bush. $5.00.

Yorkshire Hero, or Dwarf Champion. An old wrinkled sort, peas large and of delicious flavor, vines of a robust branching habit. Notwithstanding the many excellent new varieties, this old favorite still continues to be in great demand. Height, 2½ feet. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 40c., ½ pk. 70c., pk. $1.25, bush. $4.50.

Shropshire Hero. A strong, robust grower and very prolific. Pods are long and handsome; remarkably well filled with large peas. We know of no other variety which will shell out so many peas from a given quantity of pods. The peas are of delicious flavor. One of the best of its class and should be more generally used. Height, about 2½ feet. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 40c., ½ pk. 70c., pk. $1.25, bush. $4.50.

Improved Stratagem. An improvement on the old Stratagem, the tendency to sport being almost entirely removed. Vines are stocky, of vigorous habit and luxuriant foliage, and very productive. Height about 2½ feet. Pods and peas are of the largest size; quality unsurpassed. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 75c., pk. $1.35, bush. $5.00.

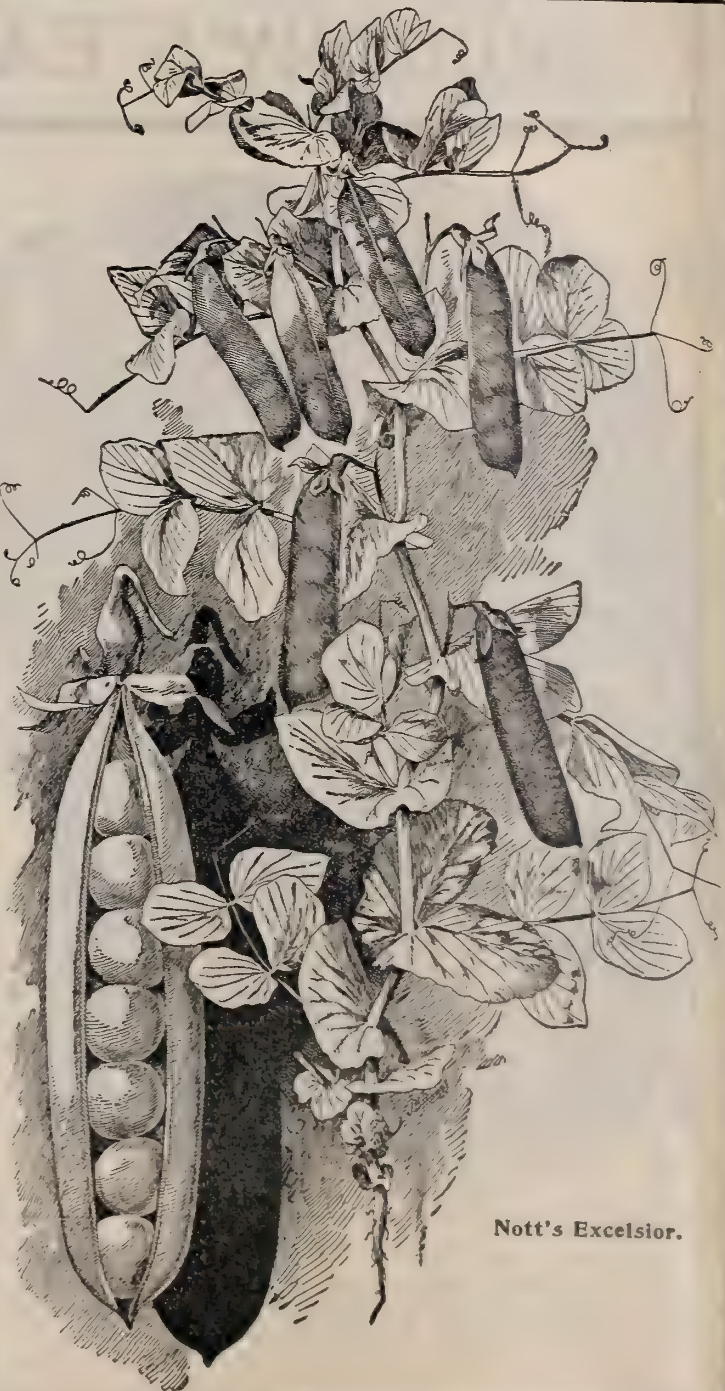
Everbearing. Vigorous and branching in habit of growth. Remains in bearing longer than most varieties. Pods medium in size. Peas are very large and of best quality. Height about 2½ feet. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 40c., ½ pk. 70c., pk. $1.25, bush. $4.50.

Telephone. The most popular late variety with market gardeners. Vines large and vigorous, growing about 4 feet high. Foliage light colored and large. Pods large. Peas large and sweet. We offer a carefully selected stock. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 75c., pk. $1.35, bush. $5.00.

Champion of England. The most popular late sort for the home garden. It is unsurpassed in richness and flavor by any of the newer varieties, if indeed equalled. Pods medium size. Peas of medium size and much shriveled. Vines fairly productive. Height, 4 to 5 feet. ½ pt. 10c., pt. 15c., qt., 25c., 2 qts. 40c., ½ pk., 70c., pk. $1.25, bush. $4.50.

Large Black-Eyed Marrowfat. A well-known variety, growing about five feet high. Pods large and well filled. Peas large, round and smooth, but much inferior in quality to the wrinkled sorts. ½ pt. 6c., pt. 10c., qt. 15c., 2 qts. 25c., ½ pk. 45c., pk. 75c., bush. $2.60.

White Marrow. Similar to the preceding. Prices the same.



Nott's Excelsior.

Peas, Beans and Corn we DO NOT Send Postpaid unless the required amount is remitted for Postage. See Page 1.

POTATOES

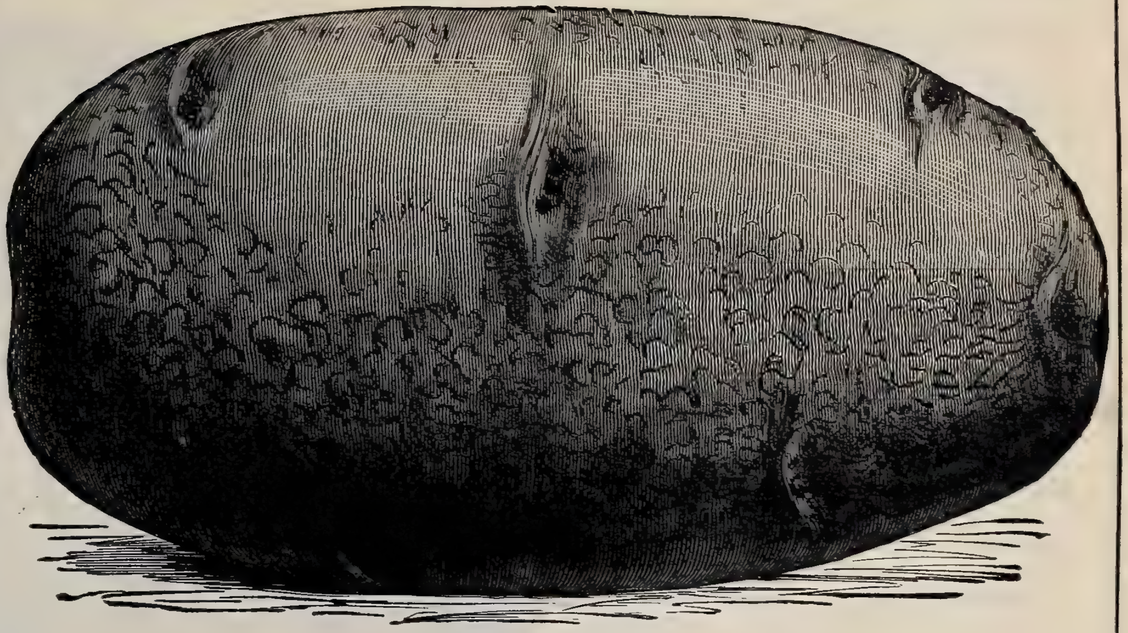
Choice Northern Grown Seed.

Progressive Farmers Change Seed Often
BECAUSE IT PAYS.

THE stocks which we offer of the following varieties were all grown in Aroostook County, Maine, by an experienced and reliable grower, and especially for seed. In no part of the country the past season could the crop of potatoes at all compare with that in Maine, and we feel sure that customers will be pleased with the appearance of our stocks. They are of good size, healthy, and true to name.

The varieties offered are such as our experience and that of others has led us to think the most desired or desirable. That a change of seed is profitable and that it should be that which was grown as far north as possible, is a question almost beyond discussion, as it is almost universally admitted to be a fact. While we would lead none to infer that we thought there was no choice in the several early varieties which are in general somewhat similar, we wish to say that we believe that that which is often of more importance than the choice of a variety is in getting a change of seed and good seed—that is, of good size, healthy and pure. If we are correct in our opinion it would be proper to suggest to customers sending orders after the season is well advanced, when we are liable to be sold out of some varieties, that they mention a second choice or even a third with which we might fill the order, if out of the first named sort. This often would save customers much annoyance, delay and disappointment and enable them to get seed much sooner than would otherwise be possible.

All varieties are put up in sacks, guaranteed to contain 165 pounds (a barrel), plainly marked with name of variety.


EARLY NORTHER.

EXTRA EARLY VARIETIES.

Early Six Weeks. An extra early variety, of good quality, cooking well as soon as it attains marketable size. In size medium to large, color light red or rose, form round oblong, resembling the Ohio, and having the specks peculiar to the Ohio type. Keeps well. A good yielder. Our grower says of it: "I consider it the best all around potato ever introduced." Pk. 50c., bush. $1.65, bbl. $4.00.

Early Bovee. An extra early variety, claimed by the introducers to have outyielded all other sorts. Closely resembles the Queen in shape and color; of good size, producing but few small tubers, and of best quality. All reports seem to bear out the introducers' claim of large yieldings when planted on strong soil. Pk. 50c., bush. $1.65, bbl. $4.00.

Early Fortune. Recommended as one of the best for early market, as it stands shipping well. A heavy cropper. In form and color it resembles the Rose, in quality surpasses it. The introducer says: "It is the earliest potato in the world, and I have tested everything. The quality, shape and color is of the best. It is going to lead everything." Pk. 50c., bush. $1.65, bbl. $4.00.

Early Harvest. An early white skinned variety of finest quality. A vigorous grower and great yielder. Said to bear shipping better in hot weather than most kinds. Pk. 50c., bush. $1.65, bbl. $4.00.

Irish Cobbler. Our grower says of this: "The biggest potato and greatest producer I have ever known among the first early varieties. It will outyield all other early kinds and equal most of the later varieties. Quality the best. Color a pure creamy white. Shape round to oblong, smooth. Vines very stocky, foliage dark green. Withstands drouth remarkably well for an early variety. It is a wonderful potato." Pk. 55c., bush. $1.85, bbl. $4.50.

Early Norther. In general appearance closely resembles its parent, the Early Rose. Since its introduction it has always been a favorite. Matures about with the Rose, perhaps a little earlier, is equal to that in quality and more even and regular in form. Pk. 50c., bush. $1.65, bbl. $4.00.

Early Essex. A seedling of the Early Rose, which it resembles. The vine, however, is of a ranker growth and more productive. It originated years ago in Massachusetts, and while it has never been a leading sort it has been, in portions of New England, a popular one. Pk. 50c., bush. $1.75, bbl. $4.25.

New Queen. A very popular sort. Closely resembles the Beauty of Hebron but is considerably earlier. A heavy yielder and of excellent quality. Pk. 50c., bush. $1.65, bbl. $4.00.

Clark's No. 1. An old favorite and still one with some growers; claimed by them to be earlier and more productive than the Rose, to which it is similar in general appearance. Of excellent quality. Pk. 50c., bush. $1.65, bbl. $4.00.

Early Rose. This standard variety needs no description; it is sufficient to say that most new early varieties are compared with this in earliness and quality. Pk. 45c., bush. $1.50, bbl. $3.75.

Beauty of Hebron. One of the most popular varieties. Probably more extensively grown than any other. Productive, early and of the best quality. Pk. 45c., bush. $1.50, bbl. $3.75.

Early Thoroughbred. A productive early variety. Matures with the Rose, in appearance resembles it; produces but few small tubers; is of extra quality. Vines are exceptionally hardy. Pk. 50c., bush. $1.65, bbl. $4.00.

SECOND EARLY, OR MEDIUM VARIETIES.

Prolific Rose. This is neither a selection nor sport of the Early Rose but a NEW SEEDLING of merit. Vines more stocky. One of the heaviest yielders of all the Rose seedlings, A little later than the Early Rose. We therefore place it with the second earliers, although we note that our grower places it this year with the first early sorts, while in his list of last year it was with the second early. Shape similar to the Early Rose. Color the same, except that the seed end is nearer red. Pk. 50c., bush. $1.75, bbl. $4.25.

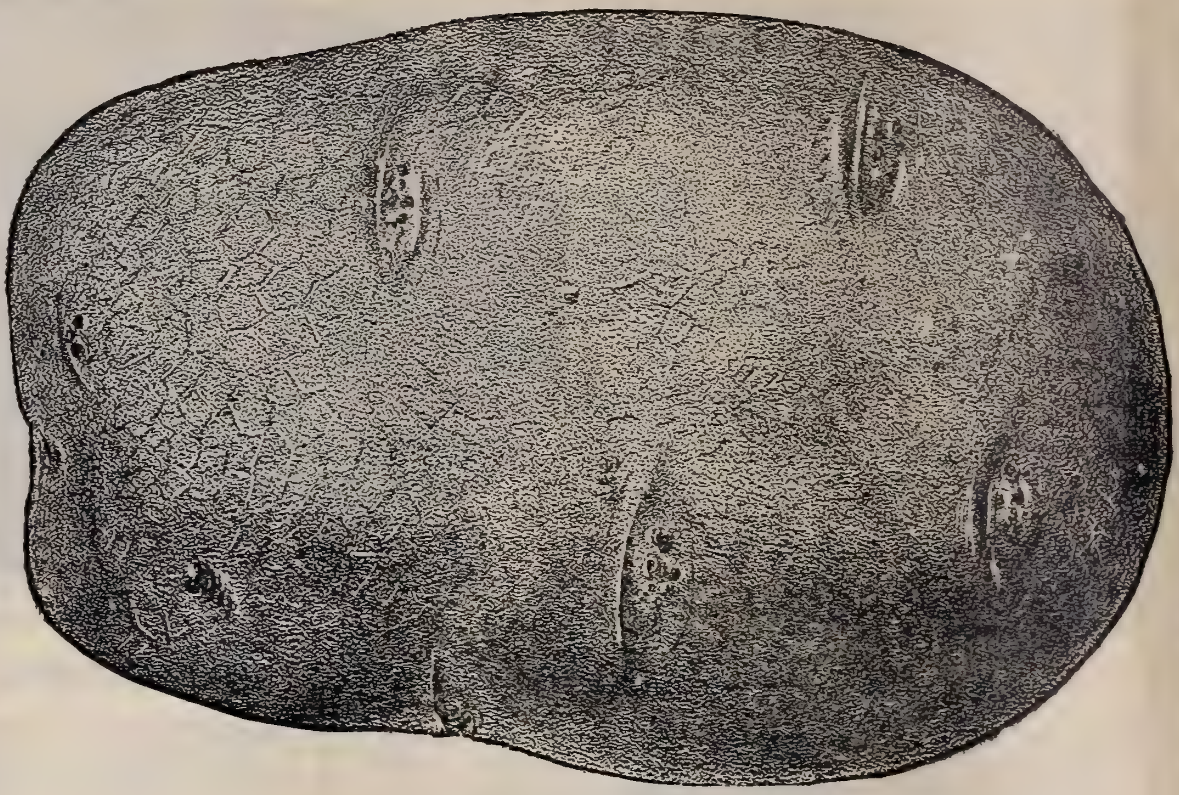
Aroostook Beauty. Our grower says of it: "The rankest grower of nearly fifty varieties. Large, very smooth, about the shape of Carman No. 1. Rose colored. Never has rotted with us. Has no weak spots; of fine quality; no blossoms. Destined to become a universal favorite." Pk. 55c., bush. $1.85, bbl. $4.50.

Delaware. Succeeds well in all soils. A valuable combination of size, yield and quality. White throughout. Shape oblong. Pk. 50c., bush. $1.65, bbl. $4.00.

Saving Money by planting the same old stock year after year instead of **Spending Money** for new, is like **Saving at the Spigot and Wasting at the Bunghole.**

POTATOES - Continued

Late or Main-Crop Varieties.



CAMBRIDGE RUSSET.

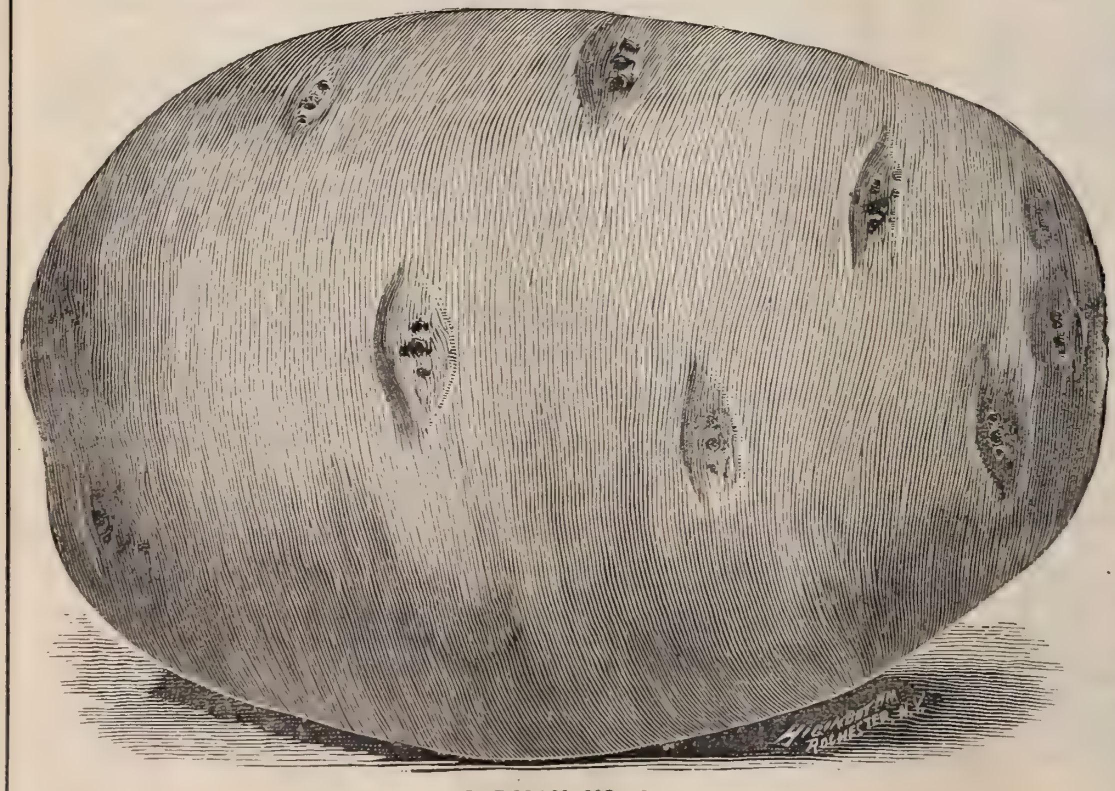
Cambridge Russet. In shape round to oblong, skin a beautiful light russet-brown covered with fine veinings. Uniform in size—none overgrown, few small ones. Never hollow. Of finest quality. Has a rich growth of vines which resist blight and drouth remarkably. Very productive. Pk. 50c., bush. $1.65, bbl. $4.00.

Green Mountain. A white skinned variety of flat oval form, smooth and attractive. Ripens slowly and is a good keeper. Quality excellent when well grown. Pk. 50c., bush. $1.65, bbl. $4.00.

Carman No. 1. Originated by Mr. Elbert S. Carman, late editor of the Rural New Yorker. Has been very popular wherever grown. Shape round or globular, skin white, shallow eyes; not inclined to rot in field or cellar; of excellent quality. Late in ripening, but yields large crops of fine marketable potatoes. Pk. 50c., bush. $1.65, bbl. $4.00.

Carman No. 3. Also originated by Mr. Carman, who said of it: "First, it is the handsomest round white potato ever produced; second, it will outyield any potato of its class; third, practically every potato is of merchantable size; fourth, its table qualities are up to the highest standard." It has yielded over six hundred bushels per acre, and in one instance twenty-two acres have produced 7,600 bushels. The vines grow very large and vigorous, rich dark green in color, and are not troubled by blight or bugs as much as many varieties are. Pk. 50c., bush. $1.65, bbl. $4.00.

Rural New Yorker No. 2. This was one of the first varieties originated on the experimental grounds of the Rural New Yorker. Very large and smooth, in form oblong inclined to round; skin and flesh white. Of superior quality. A large cropper. Pk. 50c., bush. $1.65, bbl. $4.00.



CARMAN NO. 3.

Enormous. As its name implies, a very large variety and also an enormous yielder. Skin very white, smooth, eyes of medium depth. A large percentage of crop marketable, few small ones. Late. Vines healthy and very stout and tall. Like all very large varieties, is more liable to be unsymmetrical in form than average sorts. Pk. 50c., bush. $1.75, bbl. $4.25.

Maggie Murphy. Another large variety, though not equal in size to the preceding. Like that, nearly all are of marketable size. In shape flatish oblong, with shallow eyes. Of fine quality. A desirable sort. Pk. 50c., bush. $1.75, bbl. $4.25.

White Elephant. Identical in appearance with the Beauty of Hebron but ten or twelve days later, of stronger growth and a heavier yielder. Pk. 45c., bush. $1.50, bbl. $3.75.

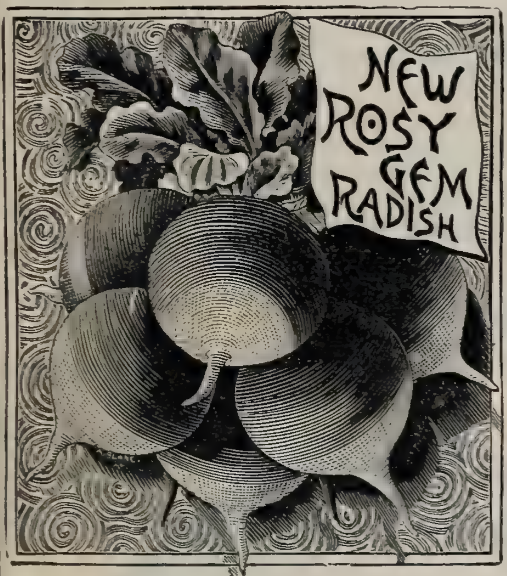
WHILE we expect to maintain the above prices through the season, owing to the liability of the potato market to fluctuate we reserve the right to change without notice. We shall not, however, advance prices unless absolutely necessary, and if there should be any material falling off in prices we shall endeavor to meet them.

We Suggest to Large Buyers THAT, BEFORE BUYING ELSEWHERE, THEY . . WRITE TO US FOR SPECIAL PRICES.

RADISH

Early Scarlet Turnip. A small, round variety, with small tops and of quick growth. Popular both for forcing and out-door planting. Deep scarlet.

Early Scarlet Turnip, White Tipped. Roots round, bright scarlet, the lower part white. A rapid grower, well adapted for forcing and used largely for out-door planting, although more liable to be pithy than the Scarlet Globe.



Rosy Gem. Identical with the preceding. Our first trial of it led us to think that it was a selected strain less liable to grow pithy than the White Tipped; subsequent ones, however, have convinced us that there is no difference, but from its popularity with some we feel obliged to catalogue it under this name.

Non Plus Ultra, or Deep Scarlet. One of the earliest; tops very small, especially suited for forcing. Color deep, rich red; form, globular.

Scarlet Globe. The shape of this when large enough for use at first is oval, in later stages of growth is more nearly globular. Brilliant red, which it holds long after pulling. Tops are a little larger than those of some varieties, but it is, nevertheless, largely used for forcing because it is seldom pithy, excelling in this respect any other variety either when planted under glass or out of doors. By far the best of its class for all purposes.

New Early Scarlet Olive Shaped, or Leafless. This differs greatly from the old Olive Shaped, in fact the name is hardly appropriate. It more closely resembles the French Breakfast (though much smaller), having an abrupt termination of the root. It is deeper in color than the Olive Shaped; it has much smaller tops than other varieties, and is, therefore, admirably adapted for forcing, as it can be grown more closely. We cannot recommend it for out-door planting, as with us it has become pithy before attaining a size suitable for pulling.

French Breakfast. A stump-rooted variety; longer than the preceding varieties, often slightly larger at bottom of root than at the top. Bright scarlet, white tipped. An old favorite yet popular for the home garden, but little used by market gardeners.

Early Long Scarlet Short Top. Once the most popular radish, but has been largely displaced in most sections by the round varieties. Grows from six to eight inches long; is ready to pull in twenty-five to thirty days from sowing.

Woods Early Frame. Similar to Long Scarlet, but shorter, of more brilliant color and slightly thicker at top, matures quicker and is more largely used for forcing.

Chartier, or Shepherd. A long variety, distinct, and one of the handsomest. Color, red at the top, shading through pink in the middle to white at the tip. Attains a very large size before being unfit for use. Of too strong growth to be used for forcing, but a desirable variety for out-door growing.

White Strasburg. A fine summer variety, growing about four inches long and two inches thick. Pure white.

Long Black Spanish Winter. One of the hardiest and best for winter use.

Chinese Rose Winter. A popular winter variety, roots cylindrical, slightly larger at the bottom, terminating abruptly. Grows about one-half above ground. Color of upper part scarlet, shading to rose in lower portion; 6 to 8 inches long.

EACH OF ABOVE VARIETIES: Pkt. 5c., oz. 10c., 2 oz. 15c., 1-4 lb. 25c., lb. 75c.

SALISFY ✤ Or Oyster Plant.

Sandwich Island Mammoth. A new and larger growing variety than the old sort. It is claimed of finer flavor. Pkt. 5c., oz. 10c., 2 oz. 20c., ¼ lb. 30c., lb. $1.00.

SPINACH

Round Thick Leaved. The popular variety. Good for either fall or spring planting.

Long Standing. Remains for a longer time than other varieties without running to seed; leaves thick and fleshy. A valuable variety.

Savoy Leaved. The earliest variety; leaves curled and crinkled like the Savoy Cabbage. Should be sown in the fall only, as it runs quickly to seed if sown in the spring.

Each of above, pkt. 5c., oz. 8c., ¼ lb. 15c., ½ lb. 20c., lb. 35c.

SQUASH

Mammoth White Bush Scallop. An improvement on the old variety, larger, pure white and superior in quality. The Scallop varieties, while popular in the South, are but little used in the north.

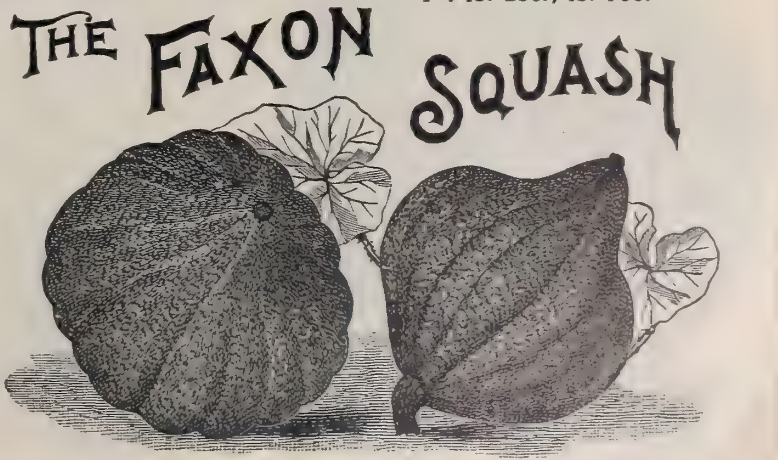
Early Summer Crookneck. For early planting the Crookneck type is used in New England to almost the exclusion of any other. This, while much smaller than the Mammoth Crookneck, is yet largely grown, many considering it of better flavor.

Mammoth Summer Crookneck. This, like the preceding varieties, is of true bush form. The squashes are nearly twice as large as the ordinary Summer Crookneck and more warty. It is generally considered earlier than that. This opinion is held because the fruit attains more quickly a size equal to the ordinary strain when that is mature or fit to eat. If fruit of this were left on the vine until *really in condition to eat*, instead of being taken when half ripe, it would not then be held that it was much earlier, if indeed any. It is because it has been so largely used before reaching a proper size that it is thought by some to be inferior in quality and flavor to the old Crookneck, while it really is fully equal to that.

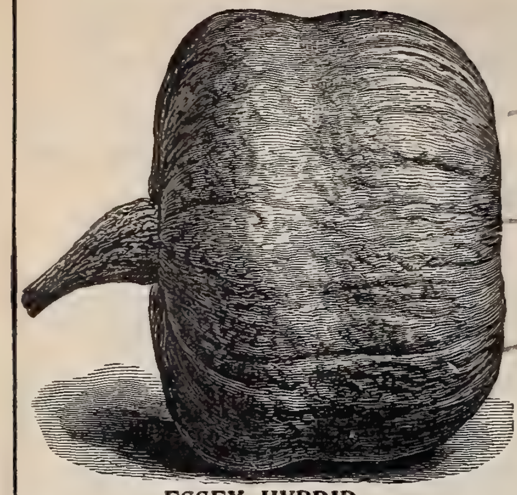
Fordhook. An early running variety, suited for either summer or winter use. Fruit small, oblong, eight to ten inches in length, with smooth, thin skin, bright yellow; flesh straw yellow, dry, sweet and of fine flavor. Excellent for baking or for pies; a remarkable keeper.

The Faxon. A very desirable variety for the home garden. It is very productive, of medium size (five or six pounds), fine grained, dry, sweet, a good keeper, uniform in shape, but varied in color. This variation in color is a distinct feature of the squash. While some of the ripe squashes are pale yellow, with still paler yellow stripes, others are green, mottled and faintly striped with a light green.

Price of each of preceding varieties: Pkt. 5c., oz. 10c., 2 oz. 15c., 1-4 lb. 25c., lb. 75c.



COPYRIGHT, 1893, BY M.B.FAXON CO.



ESSEX HYBRID.

SQUASH--Continued.

Prolific Marrow. (Dunlap's.) The earliest fall variety; from a week to ten days earlier than any other Marrow. Color deep orange. Skin considerably pitted. Not as thick meated as the Orange Marrow nor quite equal in quality, but especially desirable on account of its earliness and also because it is very prolific. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 85c.

Orange Marrow. Also an early variety, generally considered identical with the Prolific Marrow, but differs sufficiently to be catalogued as a variety. It is identical in color and pitting but is more nearly round, later, much thicker meated and of better quality. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 75c.

Boston Marrow. This grows larger than either of the preceding but is not of so deep color. Skin thin, yellow with pinkish tint. Desirable for pies but not as dry as the Hubbard. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 75c.

Essex Hybrid. A cross between the Hubbard and old Turban, partaking somewhat of the features of both. Like the Hubbard, it is hard shelled. In color it is like the Turban and in form somewhat resembles it, but an improvement. Of fine flavor and quality and an excellent keeper. (See cut.) Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 75c.

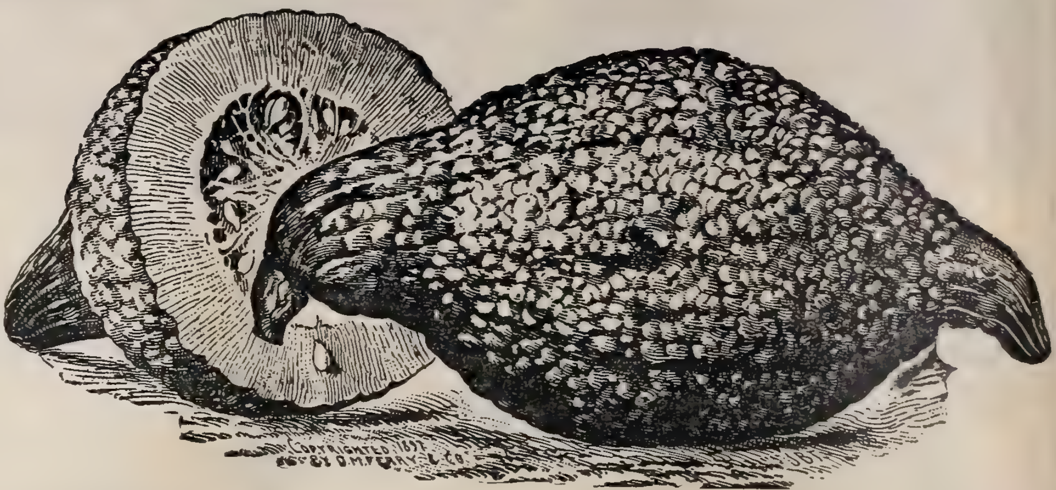
Bay State. Similar in shape to the Essex Hybrid; shell slate color and harder, and flesh is dryer than of that variety. Of excellent flavor and very solid. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 85c.

Warren. Similar in shape to the Essex Hybrid, but of richer color, a very deep orange. Shells also are thicker and are rough and warty. Claimed to be of better quality. Pkt. 5c., oz. 10c., 2 oz. 20c., ¼ lb. 30c., lb. $1.00.

NEW SQUASH.

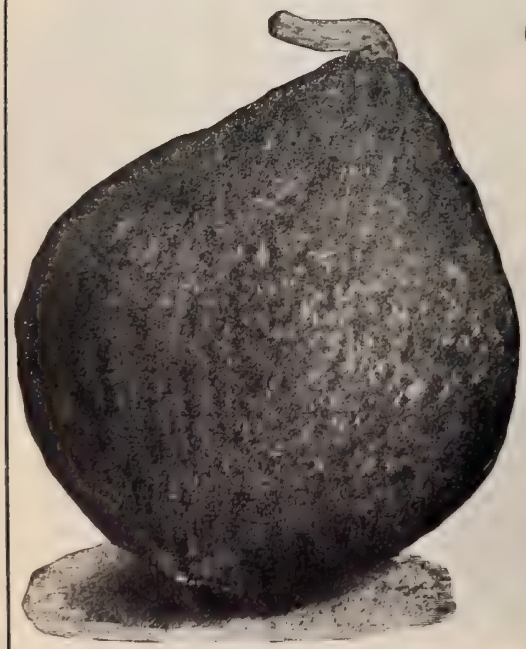
The Golden Hubbard.

Another year's trial of the Golden Hubbard verifies our opinion, formed at our first trial of it, that it is a decided acquisition to the list of squashes in general cultivation. It is a very distinct sort, of the shape and general character of the Hubbard, but a little smaller, earlier to mature, and a rich orange red instead of the dark olive green of the old Hubbard, while the flesh, which is thick, is a little deeper colored, of fully as good quality, fine grained and dry. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 90c.



Hubbard. A well-known and favorite winter variety, more largely grown than any other. Very hard shelled, skin dark green, flesh yellow, fine grained, sweet, dry, and of the best flavor. We offer a choice strain, considered by some of our customers to be superior to the popular Chicago Hubbard. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 85.

Chicago, or Warted Hubbard. A selection of the Hubbard with thickly warted shell. Equal in quality to that and generally considered to be of more attractive appearance. Of this also we offer a carefully selected strain, unsurpassed by any we have ever seen. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 85c.



GOLDEN BRONZE.

GOLDEN BRONZE. A New Variety.

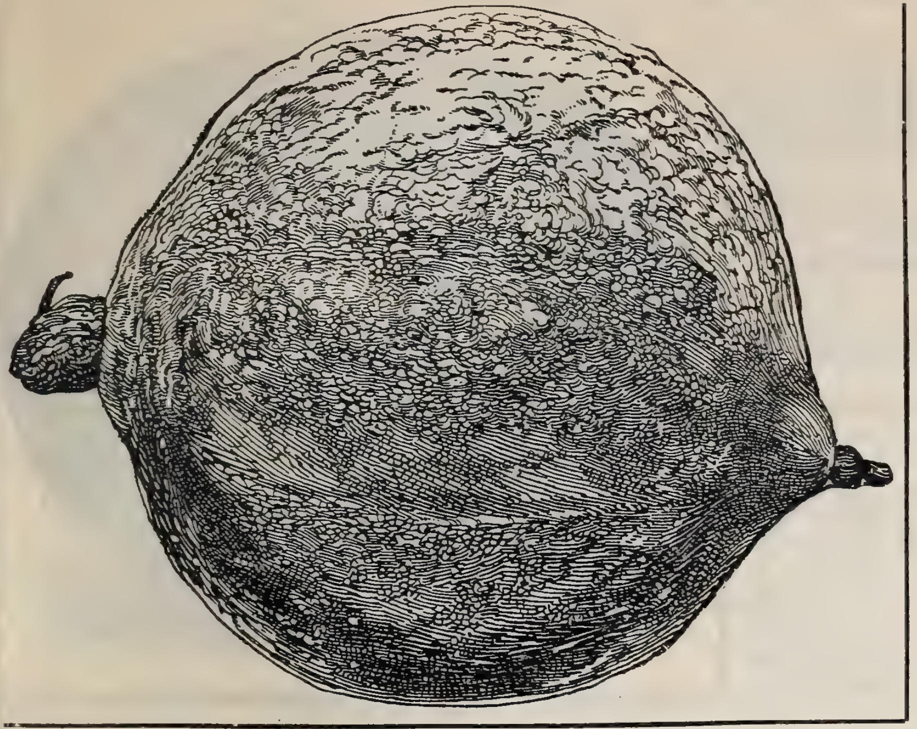
The introducers say of it: "A cross, some four years ago, of the Bay State and Boston Marrow. In form the same as the last named, with stem and blossom end precisely like that variety; also having that peculiar wrinkled appearance of the skin like the Boston Marrow. Size averaging from eight to ten pounds; color a dark greyish green, with bronze on upper surface when ripe; flesh an exceedingly bright golden yellow. Fine grained, very sweet and of delicious flavor. Early in maturing, a good keeper and yielder. Squashes are of very uniform size and appearance. As a squash, combining the qualities desired for the table and pies, this has no superior. Specimens grown in 1897 were kept until June, 1898." Pkt. 5c., oz. 10c., 2 oz. 20c., ¼ lb. 30c., lb. $1.00.

Marblehead. A popular variety in Massachusetts but not as extensively grown elsewhere, as its superior quality would warrant it to be. No other variety exceeds it in delicious flavor or dryness, and it is withal a productive variety. Form oval, shell hard, color slate. A good keeper. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 85c.

OUR SPECIAL OFFER To purchasers of seeds by the packet or ounce when no tover 10 cents per packet or ounce, allows them to select additional seeds as follows:

For 25 cents seeds may be selected amounting to 35 cents.
For 50 cents " " " " 75 cents.
For $1.00 " " " " $1.60.

Packets, ounces and quarter pounds, by mail postpaid.



SQUASH

(Continued.)

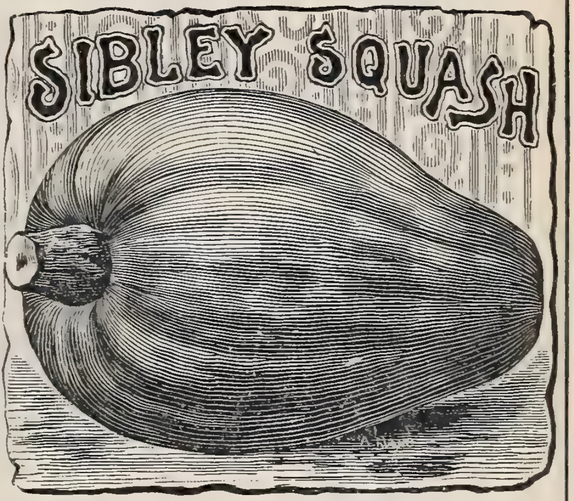
Green Mountain. The introducers say of this squash: "This sterling novelty originated in Northern Vermont, and we think it the best winter squash of recent introduction." Although somewhat like the Hubbard, this grand variety differs materially from that old and popular sort in being superior in point of size as well as in sweetness and color of flesh. The fruit is uniformly round, symmetrical and larger than the Hubbard, and has a beautiful netting of darker green instead of the wartiness of that variety. The rind is thin but hard, and the flesh very deep, orange red, without any of the objectionable green tinge near the rind so common in the best winter sorts. It cooks very quickly and evenly, and is the best of all squashes for pies. The vine is hardy, early and certain to mature the large crop it produces. Pkt. 5c., oz. 10c., ¼ lb. 20c., lb. 65c.

Sibley, or Pike's Peak. The shell is pale in color, very hard and flinty, being at the same time thin and smooth, flesh is solid, thick, vivid, brilliant orange, and is possessed of rare edible qualities, being dry, and really wonderful for fineness of grain and the rich and delicate flavor peculiarly its own. The weight ranges from eight to eleven pounds. Will keep to the last of March. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 85c.

Butman. A medium sized variety, fine grained and remarkably dry and sweet, with a delicious and distinct flavor. Color green, mottled white. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 75c.

Large Winter Crookneck. Vines resemble those of the pumpkin; seldom troubled by borers; very productive; of fair quality. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 75c.

Mammoth Chili. The largest variety in cultivation, a squash having been grown in Nova Scotia that reached the enormous weight of 292 pounds. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 75c.



TOMATO

EARLY BIRD

One of the EARLIEST

Of medium size, smooth and of excellent form (see cut). Color beautiful bright pink. Vine thrifty and productive. Pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 75c.

We Make SPECIAL PRICES to Market Gardeners and to All Large Buyers.

TOMATO
(Continued.)

Atlantic Prize. An extra early variety. A decided improvement on the small, rough and generally inferior extra earlies of previous introduction. Compares favorably with the later sorts in size, form, color and quality; color bright red.

Fordhook First. An early variety, of medium size and fine quality; round, skin smooth, pinkish purple, seldom cracks, productive.

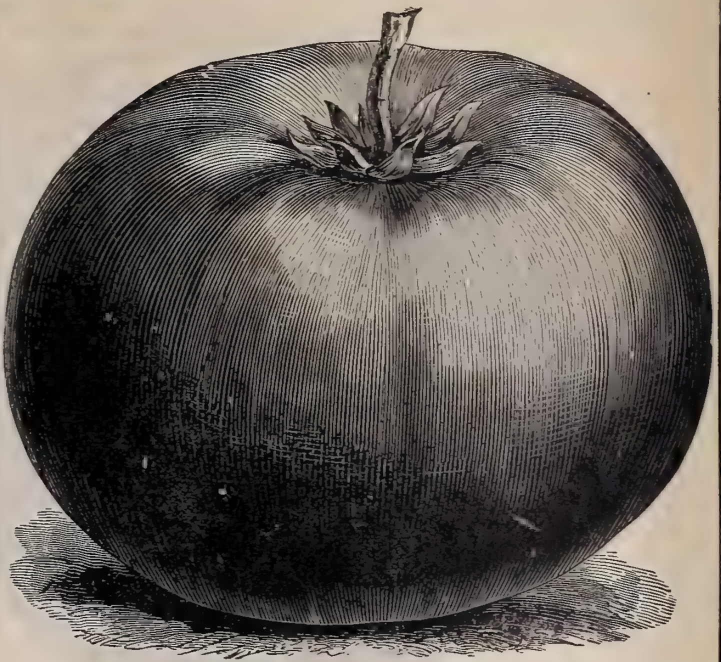
Acme. An old, well-known variety, of medium size, round and smooth; color glossy red, with purplish tinge.

Livingston's Early Perfection. An improved Acme, with red skin, somewhat larger, fully as early, has more solid flesh and fewer seed, and produces more and larger fruit at the close of the season.

Livingston's Favorite. One of the best and largest perfect shaped red tomatoes in cultivation. Ripens evenly and as early as any other good red sort. Very prolific, good flavor, few seeds, flesh solid.

Livingston's Beauty. A decided favorite for either home market or shipping purposes, being early, hardy, a strong grower, productive, of large size, always smooth, perfect in shape and excellent in quality. Color a very glossy crimson, with a slight tinge of purple. It grows in clusters of four or five large fruits, retaining its large size late in the season.

Dwarf Champion. Vines dwarf and compact, grow upright and stiff; can be planted closer than most varieties; early and productive. Fruit resembles the Acme.


The Stone.

Dwarf Aristocrat. Similar in habit of growth to the Dwarf Champion, differing in color of fruit, which is red.

Stawberry, or Winter Cherry. (Husk Tomato.) Plant small and distinct, of spreading growth and immensely productive. The fruit, when ripe, is yellow about one-half inch in diameter and inclosed in a husk, of peculiar flavor, very sweet and is much esteemed by some for preserving.

Each of preceding varieties, pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c.

Ponderosa. Fruit of enormous size, on rich soil with special care, often weighing from one to two pounds; of good form; much superior to the older extra large varieties; extremely solid, having fewer seeds than any other tomato; vine of luxuriant growth and productive. Pkt. 10c., ½ oz. 25c., oz. 40c., 2 oz. 75c., ¼ lb. $1.25.

IMPERIAL
ONE OF THE MOST PRODUCTIVE

The Imperial was originated by a market gardener, a large grower of tomatoes, who said of it at its introduction: "My experience with it is that it is the earliest, most solid, and most productive, perfectly smooth tomato on the market. It ripens evenly, is the best flavored and more than twice as productive as any other known variety. It is the handsomest tomato grown; I always get first premium at the fairs." Color purplish crimson. Pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 75c.

THE STONE
A Favorite for Market or Shipping.

Since its introduction this has steadily increased in favor with market gardeners on account of its exceptional firmness and great productiveness. Its solidity and carrying qualities are remarkable. Its color is a desirable red; in shape, thicker from stem to blossom end than most varieties; perfectly smooth, making it very handsome and saleable. Pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 75c.

Worcester, Dec. 6th, 1901.

Ross Brothers:—

Having used your Seeds the past season, I can highly recommend them.

Your Crosby Beet, Snowball Cauliflower, Purple Top Globe Turnip, Mammoth Rock Red and Improved American Savoy Cabbage, Paris Golden Celery, Squash, Gradus and Telephone Peas all received premiums at the Worcester County Horticultural and the Massachusetts Horticultural exhibitions.

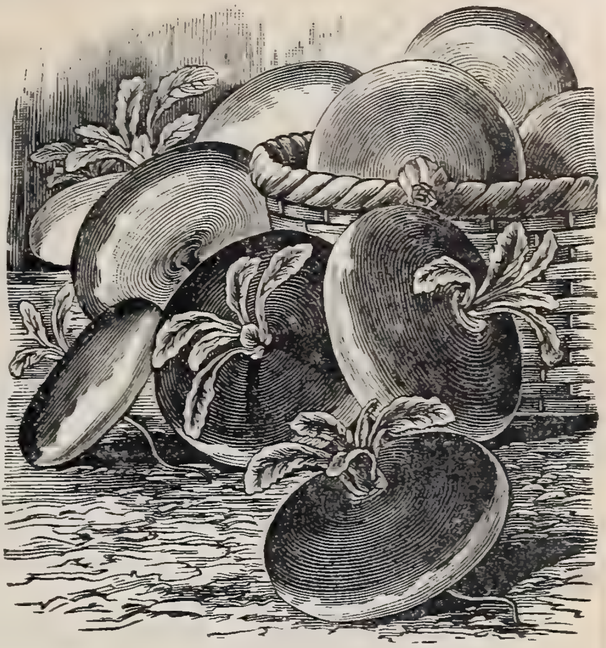
HENRY E. RICH,
1121 Pleasant Street, Worcester Mass.

THE FARM JOURNAL.

WE TAKE IT, read it, and like it, and are glad to speak a good word for it. Read carefully the Coupon enclosed in this Catalogue. Take our advice and send for it. It has articles in it that will interest you. The FARM JOURNAL gives no chromos, puffs no swindle, inserts no humbug advertisement, and does not devote one-half its space to telling how good the other half is. It is published monthly, and the regular price has been 50 cents a year, but by using the Coupon it can be secured for **five years for 60 cents.** In our opinion, no other paper approaches this liberal offer, giving so much for so little. (If more coupons are wanted by your friends, write us.) Coupon enclosed between cover and first page.

The Economy which leads some to buy the Cheapest Seed, Regardless of Results, is often the Greatest Extravagance.

TURNIP



Purple Top Milan.

Early White Milan. The earliest, showiest and best early white turnip ever offered. The pure white roots are very smooth and handsome, tops small, upright and compact, allowing close planting.

Early Purple Top Milan. Similar to the White Milan but a little flatter and purple on top; an excellent variety. Superior to the well-known Purple Top Flat.

Each of above, pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 75c.

Early Purple Top. Strap Leaved. This well-known variety is yet the most popular early one, although not equal to the Early Purple Top Milan.

Early Snowball. Pure white, round, of medium size and fine quality. Fit for use six weeks after planting.

Early Purple Top White Globe. One of the handsomest varieties, the upper portion of the root being a purplish red, the lower pure white. A rapid grower, attaining a marketable size sooner than other large globular varieties. Of the best quality and an excellent keeper. Owing to its strong growth should be more severely thinned than other early varieties.

White Egg. Also a very attractive variety and of superior quality. Egg-shaped, pure white. Grown to some extent for early use, and is a very popular winter variety. A fine keeper.

WHILE WE HAVE ENDEAVORED TO SECURE THE BEST STRAINS OF SEED OF ALL VARIETIES, WE HAVE GIVEN ESPECIAL ATTENTION TO THE PURPLE TOP GLOBE AND WHITE EGG, OWING TO THE TENDENCY OF THESE VARIETIES TO REVERT TO THE ONES FROM WHICH THEY SPRUNG. AFTER MANY TESTS OF SEED FROM DIFFERENT GROWERS WE HAVE TO OFFER STRAINS OF EACH WHICH ARE UNIFORM IN PRODUCT AND WHICH WE FEEL SURE CANNOT BE SURPASSED IN ANY RESPECT.

Yellow Globe. The standard yellow variety. Round, slightly flattened. Largely grown for stock and to some extent for market. An excellent keeper.

Golden Ball, or Orange Jelly. The handsomest yellow variety. We are at a loss to determine why it is not more generally used for market. It is of perfectly globular form and of rich orange color, superior in both shape and color to the Yellow Globe. The flesh is of a pale amber tint, fine grained, mild and sweet. It is equal as a keeper to any other variety.

Yellow Aberdeen. An especially hardy variety, globe-shaped, resembling the Yellow Globe, but differing in that the top of root is tinged with green. Desirable on account of its hardy nature for late planting and for use in late winter for stock, as it is a good keeper.

WE CONSIDER OUR SELECTION OF PRECEDING VARIETIES THE BEST OF THE MANY GENERALLY OFFERED, AND FAIL TO SEE THE NECESSITY OF ENCUMBERING OUR PAGES WITH A LARGE NUMBER OF VARIETIES WHICH HAVE NO DISTINCTIVE MERIT.

All varieties (except where priced), pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 20c., lb. 50c.

Swedish, Russian or Ruta Baga.

White French, or Rock. A very delicate flavored variety; an excellent keeper; fine for table.

Sweet German. A white globe-shaped sort. Superior for table use; of most excellent quality; good keeper.

Breadstone. A medium sized quick growing variety; white, faintly colored at top; exceptionally tender and sweet. One of the best table varieties. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 75c.

Budlong. Originated in Rhode Island by Mr. Budlong, a very extensive grower of Ruta Bagas. Earlier and more nearly round than other white varieties of this class. An excellent strain. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 20c., lb. 60c.

Shamrock. A popular English Yellow Swede. A decided favorite with our local trade. Has short neck, shape oblong.

Long Island Improved. This is undoubtedly the finest variety of Purple Top Ruta Bagas, and is purely of American origin. It often grows to twice the size of ordinary American stocks.

All varieties (except where priced), pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 20c., lb., 50c.

POT HERBS.

	PKT.	OZ.		PKT.	OZ.
CARAWAY,	$ .05	$ .10	SAGE,	$ .05	$ .20
CORIANDER,	.05	.10	SUMMER SAVOY,	.05	.20
DILL,	.05	.15	SWEET MARJORAM,	.05	.20
FENNEL,	.05	.15	THYME,	.05	.40

GRASS SEEDS.

Special Mixtures for Hay and Permanent Pasture.

On the next page will be found our mixtures for both Hay and Pasture. These are made from a number of varieties which the experience of many leading farmers have led them to believe are the best adapted to the average soil, mixed by us in such proportions as careful observation and the experience of others has shown to be the most desirable (varying the varieties and quantities somewhat when desired for especially heavy, light, wet or dry soils) our aim being to offer not only mixtures that will produce large crops of hay or good pasturage, but such as will be *permanent* in their results. The advantage of using several varieties instead of the common method of two or three (Timothy, Clover and sometimes Red Top), ought to be apparent to all—*more and larger crops of Hay, early and continuous feed in the Pasture.* In connection with this we wish to mention that a large proportion of those who have been convinced of the desirability of using a larger number of varieties than they formerly had, have also come to the conclusion that the amount of seed usually sown was insufficient to produce the best results, and their advice to others now is, "SOW MORE VARIETIES AND MORE SEED." *The quantities indicated are the minimum and doubtless might be increased to advantage.*

OUR SPECIAL MIXTURE FOR HAY.

THIS mixture is a combination of biennial and perennial varieties, which from the first, and for years will afford early and successive crops larger by at least one-third and more nutritious than from the old method, and will last from ten to twenty years without renewal, is designed for the AVERAGE SOIL (neither too wet or too dry), and can be sown in either the spring or fall. We advise a sowing of not less than 40 pounds (including clovers), to the acre. Per lb. 14c; 100 lbs. and over, 13c per lb.

In the above quantity for one acre should be included 6 pounds of mixed clovers, but which, on account of their greater weight, should be sown separately and IN THE SPRING, as in this latitude they are tender.

If a mixture is needed for an especially light, heavy, wet or dry soil, let us quote you price on it.

ROSS BROS. SPECIAL MIXTURE FOR PERMANENT PASTURE

Which Will Last For Years Without Renewal.

AND WILL FURNISH GOOD FEED FROM EARLY TO LATE IN THE SEASON.

For every kind and condition of soil there are grasses which are particularly adapted to it. Some species succeed best on wet or moist, and some on dry soil. Some mature or are at their best very early; some later, and others very late, so that if a considerable number of these different species and varieties were used in a mixture for a pasture there would be no time, from the first of the season to the last, when some kind would not be at its best and furnish continual feeding for stock.

This mixture is made of a selection of such grasses, and may be relied upon to afford from the first, early and continual feed, and to make a permanent pasture, such as would be impossible to obtain by common manner of seeding. Sow 40 pounds to the acre, including 6 pounds of mixed clovers, which should be sown separately for same reasons given under head of Mixture for Hay. Per lb. 14c, 100 lbs. and over 13c per lb.

GRASS SEEDS--GENERAL LIST.

Prices for Large Quantities on Application. All Prices Variable and Subject to Change Without Notice.

Rhode Island Bent. (Agrostis Canina.) An excellent variety for lawns and permanent pastures. Grows naturally in poor soils. Lb. 20c.

Red Top. (Agrostis Vulgaris.) A good permanent grass; excellent for lawns, pastures, etc., and for sowing with Timothy and Red Clover. Lb, 6c.

Red Top. Fancy, cleaned from chaff, containing nothing but pure seed. Lb. 15c.

Meadow Foxtail. (Alopecurus Pratensis.) A very valuable grass for permanent pastures on account of its early and rapid growth, and of its being relished by all stock. Thrives best on rich, strong, moist soil. No grass bears a hot sun better, nor do frequent mowings or continual feeding of stock injure it. It should be used in all pasture mixtures and, on account of its early verdure, is valuable for lawns. Lb. 30c.

Sweet Vernal. (True Perennial.) (Anthoxanthum Odoratum.) Valuable for permanent pastures on account of its early and continued growth, throwing up root stalks until late in the autumn; frequently found growing naturally in upland pastures. Very fragrant, imparting a pleasing odor to hay. Stock are very fond of it. Is not generally considered of much value for hay on account of its thin stalks and scanty foliage, but should be used in moderate quantities in all pasture mixtures. Valuable also for lawns, Lb. 60c.

Tall Meadow Oat Grass. (Avena Elatior.) Of early, rapid, late and luxuriant growth, making it a very valuable sort for pastures. Succeeds best on deep, sandy soils. Used by some for soiling. Lb. 20c.

Orchard Grass. (Dactylis Glomerata.) One of our most valuable grasses, thriving on all soils, and should form a considerable part of all mixtures for hay or pastures. The objection urged against it because of its tendency to grow in clumps is almost entirely removed, when used in mixtures. It is of early and rapid growth, and no variety yields a greater amount of aftermath. It bears repeated cutting for hay and the continual cropping of cattle better than most other grasses. Cut at the proper stage, it makes a much better hay than Timothy, is greatly preferred by animals, will yield much larger crop, and is more nutritious. Lb. 14c.

Hard Fescue. (Festuca Duriscula.) While not a productive variety, it is a very valuable one on account of its very fine quality, its power to withstand drought, and to thrive well in dry situations where many others would fail, and should form a part of all hay, pasture and lawn mixtures. Lb. 15c.

Meadow Fescue. (Festuca Pratensis.) A very valuable grass, and should be in all permanent mixtures, both for hay and pastures designed for moist soils. Cattle are very fond of it either as grass or hay. It does not reach its greatest productiveness until the second or third year, but when fully established, it is one of the best permanent varieties. Lb. 20c.

Tall Fescue. (Festuca Elatior.) Also a valuable variety; very similar to the Festuca Pratensis, but taller, of stronger growth and about two weeks later. Should be in all mixtures for moist land. Lb. 25c.

Crested Dog's Tail. (Cynosurus Cristatus.) A valuable grass for sheep pastures, on dry, hard soil and hills. Often used in lawn mixtures. Lb. 40c.

Italian Rye Grass, (Lolium Italicum.) An oft quoted writer says of this grass: "It occupies the same place in Great Britain that Timothy does with us, and is there esteemed on the whole higher than any other species of grass. Of all the varieties of Lolium Perenne which are known that called Italicum is by far the most valuable."

Another eminent authority sums up its valuable qualities as follows: "Its earliness, rapid reproduction after cutting, the extreme partiality manifested by all domestic animals for it when used either as soiling, hay or pasturage, and its influence on the dairy not only increasing the flow of milk, but improving the flavor of the cheese and butter made from it." It is at its best on moist or irrigated meadows, but is valuable on a great variety of soils. Lb. 12c.

Kentucky Blue Grass. (Poa Pratensis.) Thought by some to be the most valuable of all pasture grasses. Early and of luxuriant growth, and will furnish continual grazing until late in the fall. It requires several years to become thoroughly established as a pasture grass. It grows well on all soils and localities; stands the extremes of heat or cold better than any other variety. Not recommended for hay, but should be in all mixtures for pastures, and also lawns. Extra clean seed. Lb. 15c.

Fowl Meadow. (Poa Serotina.) Grows abundantly in almost every section of New England. and in portions of the Middle and Western States, especially where it has been introduced and cultivated in suitable ground, such as the borders of rivers and places occasionally flooded. It never grows so coarse or hard but that the stalk is sweet and tender, and eaten without waste. It is easily made into hay, and is nutritive and valuable grass. Does best used in mixtures. Sow same quantity as Red Top. Lb. 25c.

Timothy. (Phleum Pratense.) One of the commonest and best known grasses. For a hay crop it is perhaps the most valuable, especially in the Northern States. It is, however, often used when probably some other variety would be more suitable. (45 lbs to bush.) Lb. 10c., 100 lbs. $8.00

We Do Not Send Grass Seeds Postpaid. If Small Quantities are Desired Sent by Mail, Add 8 Cents Per Pound to Price Quoted.

Japanese ❀ Millet,

Panicum
Crus
Galli.

OR JAPANESE BARNYARD GRASS.

The Most Popular Forage Plant Ever Introduced.
Readily Eaten by Cattle Either Green or Dry.

GOOD For Soiling, For Ensilage, For Hay.

WILL PRODUCE MORE TONS PER ACRE OF EITHER GREEN OR DRY FODDER THAN ANY OTHER PLANT OF SIMILAR NATURE.

THE experience of another year with the Japanese Millet, the large sale of seed, observation of growing crops and the many favorable reports of customers but verifies our estimate of its value and prediction that the public would soon learn it. This Millet was imported from Japan and introduced by Prof. Brooks of Amherst Agricultural College. As a green forage crop it at once proved to be a decided acquisition and is now regarded by many as an excellent addition to our ensilage crops, and when dried is as readily eaten by both cattle and horses as the hay made from any of the common varieties of Millet. It is of very rank growth, from six to seven feet high, with much larger leaves than the Golden or German Millet, and a far heavier cropper. Like all coarse growing plants, it needs abundant plant-food. When given this on good soil the yield is simply immense. Although a free seeder, its great value when green (and when cut early it will often produce on rich land three crops) has inclined growers to use it for soiling purposes rather than to let it ripen seed. The supply of seed therefore, while probably larger than at the beginning of last season, is yet limited. We have learned that there was again last season, as in the previous one, seed of inferior varieties sold for this. We caution all who are not familiar with the appearance of the seed against purchasing that which came from unknown sources. Our seed was all grown in Massachusetts from stock furnished by us. While our stock is probably larger than that of any other dealers, we judge from sales already made that it will be exhausted before the season is over, and therefore advise those depending on us for their supply to order early. Sow from 15th of May to July 1st, 15 pounds to the acre. Price per pound 12c., by mail, postpaid, 20c. 15 pounds or over, by express, 10c. per pound.

MILLET. **Hungarian.** Splendid forage crop for light land. On rich land two crops may be grown the same season. Withstands drought and yields abundantly. (48 lbs. to bush.) Bush. $1.65.

Common. Very similar to Hungarian. A little more branching in its growth. (50 lbs. to bush.) Bush. $1.75.

Golden, or German. A heavier cropper than the Hungarian, and needs a longer season and a stiffer soil; stands up well. Is easily cured, makes a coarse, harsh hay, which is greedily eaten by all live stock. (50 lbs. to bush.) Bush. $2.00.

CLOVER. **Medium Red.** The common variety, more generally grown than any other. Lb. 14c.; 100 lbs. $13.00.

Mammoth or Pea Vine. Similar to the Medium Red but taller and stalk is larger. This is the variety generally used for plowing under. Lb. 15c.; 100 lbs. $14.00.

Alsike, or Swedish. A hybrid which originated in Sweden. A perennial, thriving equally well on wet or dry soils. Lb. 18c.; 100 lbs. $17.00.

White. Thrives in nearly all soils, wet or dry. Valuable for lawn and pasture mixtures. Lb. 25c.

Crimson, Scarlet, or Italian. An annual of very rapid growth. Sown late in summer it will produce a large crop suitable for fodder or plowing under. Lb. 10c.; 100 lbs. $9.00.

Alfalfa, or Lucerne. Valuable as a forage plant for light, deep, dry soil, the roots penetrating so deep that it stands severe drought without injury. Lasts for years when once established. Lb. 13c.; 100 lbs. $12.00.

Grain, and Miscellaneous Seeds for Forage Crops

BARLEY. Largely used for sowing in July and August for fall feed, for which purpose sow from two to two and one-half bushels per acre. (48 lbs. to the bushel.) Bush. $1.10.

OATS. Growing more and more in favor for early green fodder. We have taken all possible pains to secure oats that were free from foul seeds, and of superior quality. In our opinion the economy which leads one to save a few pennies on a bushel of oats is quite likely to be extreme extravagance. Buy the best and *save money*. Bush. 65c.

RYE. (Spring.) Largely used in this section as oats are, almost entirely for soiling purposes. For this purpose sow 1½ bushels to the acre. Bush. $1.25.

WHEAT. (Spring.) Leading varieties. Bush. $1.60.

BUCKWHEAT. (Japanese.) Earlier, larger and yields much better than other sorts. Bush. $1.25.

CANADA PEAS. Used extensively for sowing with oats for soiling. When thus used sow a bushel to the acre. Bush. $1.50.

VETCHES. Used the same as the preceding. Sow with oats from ½ to ¾ bushel. Bush. $2.75.

KAFFIR CORN. This plant seems to be increasing in popularity as a forage crop. In habit of growth it is low, stocky, perfectly erect; does not stool from the root but branches from upper joints. The stalks are tender and juicy, and are used entire, as well as the blades, both for green and dry fodder, and are readily eaten by horses and cattle. The grain has already become a popular food for poultry and pigeons in many sections where the plant has not been cultivated. It cannot be relied upon to mature seed in New England. Lb. 10c., 15 lbs. $1.00.

COW PEAS. Used largely as a green crop for plowing under, the demand seeming to increase year by year for that purpose. Also used in the South for a green summer feed for sheep, and to a limited extent in the North for the same purpose. Sow 2 bushels to the acre. Pk. 60c., bush. $2.00.

SOY, or SOJA BEAN. This plant is rapidly becoming popular both for green fodder and ensilage as well as for plowing under. Like Clover, it is a valuable soil enricher. A large grower, probably the largest northern grower of seed, says: "I began growing Sojas seven years ago, at which time they were very little known. In seven years I have seen the trade increase from nothing till in the seasons 1900 and 1901 the supply was exhausted before the season was half passed." The seed we offer of the following varieties is northern grown.

Medium Early Green. Beans green, small; stalks 3 to 5 feet. Rank grower. Best for ensilage. Pk. 85c., bush. $3.00.

Small Yellow (Coffee Berry). Beans small, straw color. Grows from 1½ to 2½ feet high. Early. A popular variety, which has been extensively advertised as the *German Coffee Berry*, the beans when roasted and ground being sometimes used as coffee. Lb. 15c., pk. 85c., bush. $3.00.

Where price is quoted on grass seeds by the pound only, there is usually a liberal discount when purchased in large quantities, which, from the tendency of the grass seed market to greatly vary, we prefer to make on application only.

We Do Not Send Grass Seeds Postpaid. If Small Quantities are Desired Sent by Mail, **Add 8 Cents Per Pound to Price Quoted.**

LAWN GRASS SEED.

Ross Bros.' Mixture--
THE WORCESTER.

A
GOOD LAWN
is now
as necessary
as a
Good Garden
in the
Country
as well as the
City.

ROSS BROS.'
Worcester LAWN GRASS SEED.

THE BEST.

The Best Varieties. Mixed in Right Proportions.
Extra Cleaned. Free from Weed Seeds.

Simply stated, the Worcester Lawn Grass Seed is a combination of various grass seeds which years of experience have convinced us are those most desirable.

In this selection of varieties we have those that grow and thrive at different times of the year —insuring *constant verdure through the season;* those that are remarkable for their tenacity of growth —insuring *the safety of the lawn through severe drouth;* those that are long-lived or perennials—insuring *permanency;* all of which combined will produce *a fine velvety growth* which will bear *constant cutting*, so necessary to keep the lawn in good condition.

" Ross Bros." Worcester Lawn Grass Mixture is adapted to the average soil, contains nothing but extra clean or recleaned seeds, is as free from chaff and weed seeds as the most improved machinery can make it, and is *the BEST that can be made.*

This Mixture weighs about 32 lbs. to the bushel, but is sold only by weight.

PRICE: 1 lb. pkg. 25c.; 4½ lb. pkg. $1.00. In 10 pound lots or over in bulk, per lb. 20c.

Our sales of ROSS BROS.' LAWN DRESSING were never so large as last season. What we have to say of it further along in this catalogue may explain the increase.

IF IN NEED OF ANY SPECIAL MIXTURE, LET US QUOTE PRICE.

Ross Brother's Reliable Flower Seeds.

POSTAGE PREPAID ON ALL FLOWER SEEDS BY THE PACKET, OUNCE OR QUARTER-POUND AT PRICES QUOTED.

ORDER BY NUMBER AS WELL AS NAME.

ABRONIA.

1—**Umbellata.** A beautiful little trailer suitable for vases, rock-work, etc. Flowers fragrant, rosy pink, borne in large trusses. Half hardy annual; ¾ ft........................5c.

ACROCLINIUM ☘ Everlasting Flower.

A free-flowering plant, suitable for garden culture. Flowers when dry are largely used for winter bouquets. Half hardy annual; 1 ft.

2—Double, mixed colors..............................5c.

ADLUMIA ☘ Mountain Fringe—Allegheny Vine.

3—**Cirrhosa.** A beautiful climber with graceful, feathery foliage, bearing freely all summer small rose colored flowers. Hardy biennial; 15 ft..................................5c.

ADONIS ☘ Pheasant's Eye—Flos Adonis.

4—**Autumnalis.** A free-flowering garden plant with finely cut dark green foliage, bearing blood-red flowers. A popular and desirable plant, remaining in bloom for a long time; of easy culture. Hardy annual; 1 ft.......................5c.

AGERATUM

Favorite annual plants, profuse and continual bloomers, growing from six inches to two feet in height. The tall varieties are very suitable for planting in clumps or masses, producing a striking effect and furnishing an abundance of cut flowers. The dwarf varieties are very desirable for edgings, and both make excellent pot plants.

5—**Mexicanum.** Lavender blue; 2 ft.....................5c.
6—**Album.** White; 2 ft...................................5c.
7—**Little Dorrit.** Azure blue, very compact; ½ ft..........5c.
8—**Imperial Dwarf.** White; ¾ ft..........................5c.
9—Mixed Colors................................ ....5c.

AGROSTEMA.

Pretty, free-blooming plant, useful both for cutting and bedding.

10—**Cœli-rosa** (Rose of Heaven) rose, white center. Hardy annual; 1 ft..5c.

AQUILEGIA ☘ (Columbine).

Hardy herbaceous perennials, deserving a place in every collection of perennials. Flowers curiously and gracefully formed and beautifully colored; of easy culture; 1½ to 3 ft.

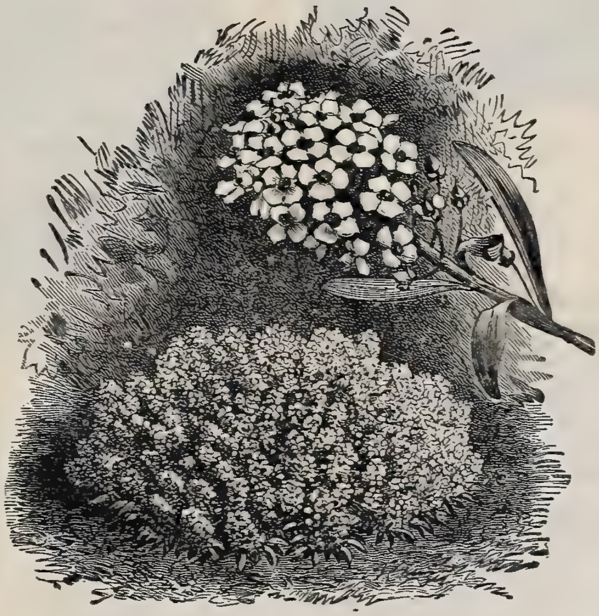
11—Mixed Colors..5c.

ASPERULA ☘ Sweet Woodruff.

12—**Odorata.** A free-blooming plant, bearing fragrant blue flowers which remain a long time in bloom. Hardy annual; 1 ft...5c.

ALYSSUM

A well known favorite hardy annual, blooming profusely the entire season. . . . . . .



Sweet Alyssum.

13—**Sweet Alyssum.** Fragrant white; 1 ft. Oz. 25c., ½ oz. 15c......5c.

14—**Little Gem.** Dwarf, growing but a few inches high, of spreading or trailing habit, forming compact masses of bloom often a foot or more in diameter; very useful for edgings. Oz. 40c., ½ oz. 25c....5c.

AMARANTHUS.

Ornamental foliage and flowering plants, very showy and interesting, of rapid growth and easy culture; color of foliage will be better if planted on rather poor soil; half hardy annuals.

15—**Caudatus.** (Love-lies-bleeding.) Long, drooping flower, spikes dark red...5c.

16—**Tricolor.** (Joseph's Coat. Red, yellow and green foliage, 3 ft...5c.

17—**Salicifolius.** (Fountain Plant.) Graceful, drooping leaves, varying from green to bronze, banded and tipped with carmine...5c.

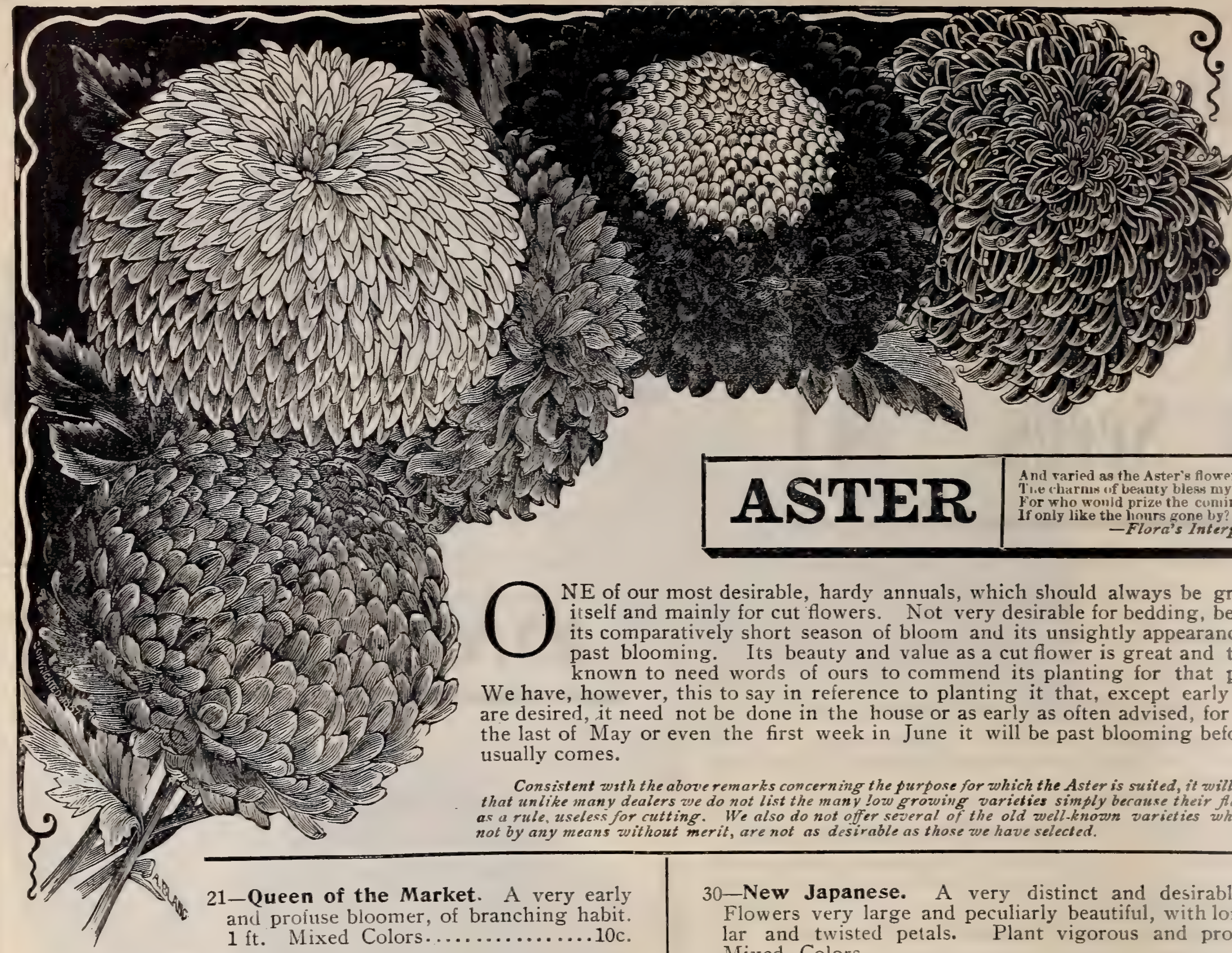
18—**Mixed Varieties,** including above and others.........5c.

ANTIRRHINUM ☘ Snap Dragon.

Well known favorite border plants; half hardy perennials, flowering first year from seed sown in spring.

19—**Tall Varieties.** Mixed Colors; 2 ft..................5c.

20—**Dwarf or Tom Thumb Varieties.** Mixed Colors.....5c.



ASTER

And varied as the Aster's flower
The charms of beauty bless my eye—
For who would prize the coming hour,
If only like the hours gone by?
—*Flora's Interpreter.*

ONE of our most desirable, hardy annuals, which should always be grown by itself and mainly for cut flowers. Not very desirable for bedding, because of its comparatively short season of bloom and its unsightly appearance when past blooming. Its beauty and value as a cut flower is great and too well known to need words of ours to commend its planting for that purpose. We have, however, this to say in reference to planting it that, except early flowers are desired, it need not be done in the house or as early as often advised, for if sown the last of May or even the first week in June it will be past blooming before frost usually comes.

Consistent with the above remarks concerning the purpose for which the Aster is suited, it will be noted that unlike many dealers we do not list the many low growing varieties simply because their flowers are as a rule, useless for cutting. We also do not offer several of the old well-known varieties which, while not by any means without merit, are not as desirable as those we have selected.

21—**Queen of the Market.** A very early and profuse bloomer, of branching habit. 1 ft. Mixed Colors..................10c.

22—**Queen of the Earliest.** Resembles the preceding but is considerably earlier. Flowers white only, borne in profusion on long stems. 14 inches..................10c.

23—**Truffauts Peony Flowered Perfection.** An old, but still popular variety. Plant large but of compact form. Flowers large with incurved petals; very double and of beautiful form. An abundant bloomer. 1½ ft. Mixed Colors.........10c.

24—**Lady in White.** A variety especially desirable for its freedom of blooming and distinct in its foliage. Plant of branching habit, bearing on slender stems semi-globular pure white flowers. From forty to sixty buds are borne on each plant which, developing gradually, prolong the season of bloom..................10c.

25—**Jewel or Ball.** A fine new type. Plant, dwarf, but bears freely, on long stems, flowers which are of good size and perfectly round. Mixed Colors..................10c.

26—**Daybreak.** A beautiful Aster. Plant of bushy, branching habit, bearing on long, stiff, upright stems, large double flowers with incurved petals, very regularly placed. Color, a lovely shell-pink; as a cut-flower, not excelled by any other variety..................10c.

Giant Branching Comet. A distinct and very valuable class. Flowers resemble the Japanese Chrysanthemum, and differ from those of the older Comet class in that they are not only larger but petals are broader and longer, flower-stems long. Plant of vigorous, luxuriant growth, 1½ ft.

27—Giant White..................10c.
28—Giant Rose..................10c.
29—Mixed Colors..................10c.

30—**New Japanese.** A very distinct and desirable class. Flowers very large and peculiarly beautiful, with long tubular and twisted petals. Plant vigorous and productive. Mixed Colors..................10c.

Semple's Branching. Of very branching habit and a strong grower; flowers large, often four inches in diameter. Valuable for cutting on account of their long stems; very double, beautiful colors. One of the best late flowering varieties, 1½ to 2 ft.

31—Rose..................10c.
32—White..................10c.
33—Mixed Colors..................10c.

Victoria. One of the most popular varieties. Flowers large, full and double with reflexed petals. Plant large and vigorous and a free bloomer; colors varied and beautiful.

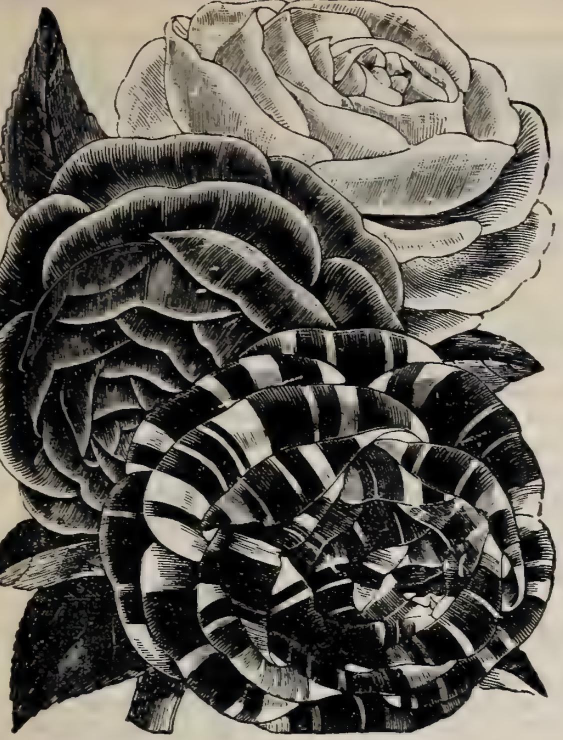
34—White..................10c.
35—Scarlet..................10c.
36—Blue..................10c.
37—Mixed Colors..................10c.

38—**Betteridge's Quilled.** Flowers composed of tube or quill-shaped petals. This is an improved strain, with large, double flowers, and of beautiful colors, 2 ft.
Mixed Colors..................5c.

38½—**Prince of Wales.** Plant of free branching habit, bearing on long stems large flowers of a deep crimson red. It is a very early bloomer, a fitting companion to the *Queen of the Earliest*, the color of its flowers making a pleasing contrast to the pure white of that variety..................10c.

39—**Our Worcester Mixture.** Our own mixture of above varieties, carefully mixed, enabling any to secure a choice collection at slight outlay..................10c.

40—**Good Mixed.** Many varieties..................5c.



Improved Double Balsams.

BALSAM ☘ LADY SLIPPER TOUCH-ME-NOT

An old favorite garden flower which has been greatly improved in recent years. With favorable conditions and proper treatment but few single flowers are produced. The Camellia flowered varieties are especially fine, and if planted on rich soil and given sufficient room (about two feet apart each way) will produce a great profusion of flowers, nearly all of which will be as double as their name implies. The rose-flowered, also, are strikingly beautiful with their large, perfectly double, rose-like blossoms and great variety of shades and colors. Hardy annual; 1½ to 2 ft.

41—**Double Camellia Flowered.** Mixed colors........................10c.
42—**Double Rose Flowered.** Mixed colors........................10c.
43—**Double Pure White**..........10c.
44—**Double Dark Red**............10c.
45—**Good Mixed**.................. 5c.

BACHELOR'S BUTTON ☘ Blue Bottle; or, Corn Flower.

(Centanrea Cyanus.)

A well known and very popular plant, blooming early and continuously until autumn if flowers are not allowed to go to seed. White, blue and pink. Hardy annual; 2 to 3 ft.

46—Single and Double Mixed, Mixed Colors..................................5c.

BALLOON VINE ☘ Love in a Puff.

(Cardiospermum Halicacabum.)

47—A tender annual climber of rapid growth, bearing small white flowers, followed by curious inflated seed vessels, somewhat resembling a balloon; 10 to 15 ft........5c

BRACHYCOME ☘ Swan River Daisy.

A free flowering plant of dwarf compact growth, bearing in great profusion beautiful single blue or white flowers. Effective as edgings or in beds, and suitable for rustic baskets or pot culture. Half hardy annual.

48—Mixed Colors......................5c.

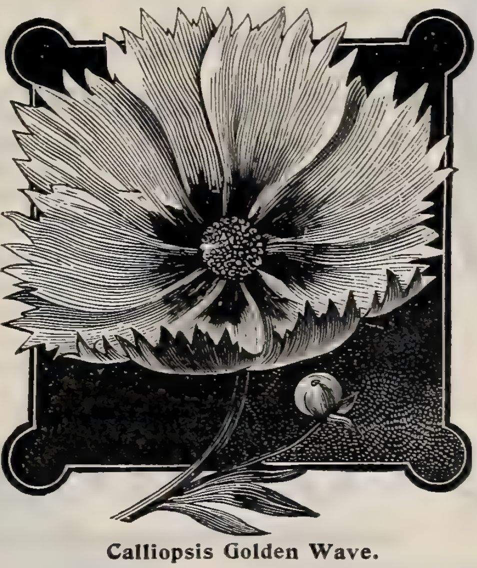
BROWALLIA ☘ Amethyst.

Strikingly beautiful plants and profuse bloomers, succeeding best when started in the house or hot-bed, but can be sown in the open ground. When successfully grown the plants are completely studded with the rich, beautiful blue and white flowers. Half hardy annual.

49—**Roezii.** Blue and white mixed....10c.
50—**Elata.** Mixed......................5c.

CALLIOPSIS

For Perennial Varieties See Coreopsis.



Calliopsis Golden Wave.

One of the most graceful and satisfactory hardy annuals, profuse and continuous bloomer, sometimes called "Bright Eyes." Flowers brilliant yellow, orange, crimson, red and brown, spotted or margined with different shades, and having long stems are excellent for cutting.

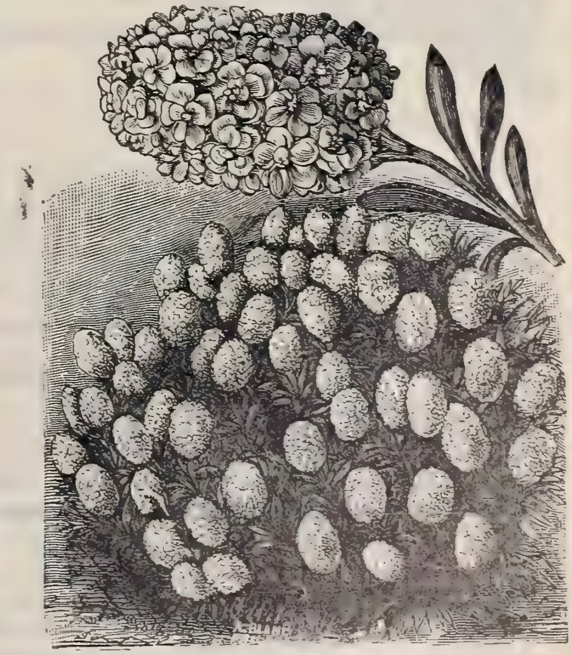
51—Choice Varieties Mixed, 2 ft..5c.
52—**Golden Wave.** (Drummondi.) Plant distinct from above sorts, of bushy, compact and dwarf habit. Flowers large, often 2 inches across; beautiful golden yellow with small dark center..5c.

CALENDULA ☘ Pot Marigold.

A free and continuous blooming plant of dwarf, bushy habit; of the easiest culture, growing freely in nearly all soils. Desirable both for garden decoration and pot culture. Hardy annual; 1 ft..5c.

53—**Meteor.** Light yellow, striped with deep orange; very popular...........5c.
54—**Prince of Orange.** Bright orange, striped with light yellow............5c.
55—**Trianon, the Royal Marigold.** Very large, sulphur-yellow, striped with deep, rich brown..........................5c.
56—**Pongei.** White Marigold.........5c.

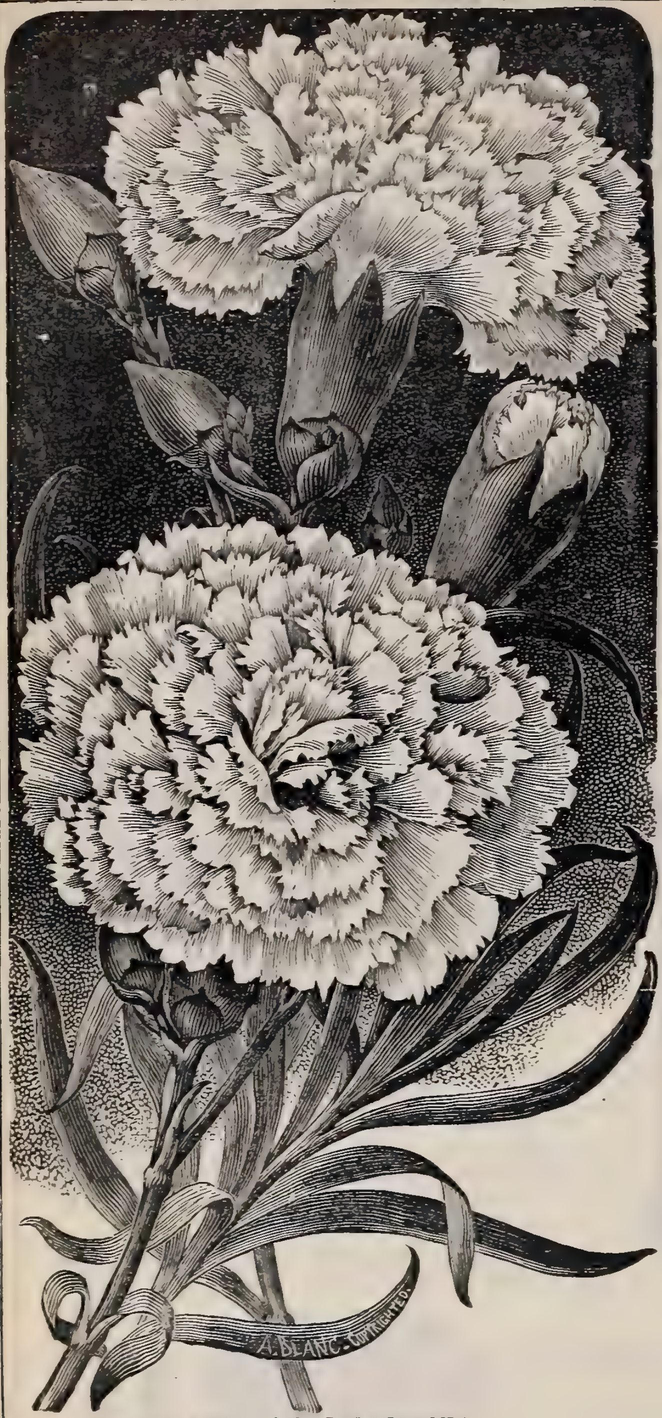
CANDYTUFT ☘ IBERIS



Candytuft—White Fragrant.

Well known, popular hardy annual, of easiest culture; useful for bedding, edgings or for cutting.

57—**White Rocket.** (Empress.) Large trusses, 1 ft. ½ oz. 15c., oz. 25c..5c.
58—**White Fragrant.** 1 ft. ½ oz. 15c., oz. 25c............5c.
59—**Tom Thumb.** Very dwarf, mixed colors............5c.
60—**New Carmine.** A distinct shade...................5c.
61—Fine Mixed. ½ oz. 15c., oz. 25c......................5c.
62—**Semper virens.** (Perennial.) A hardy dwarf, early flowering plant, well adapted for rockeries, etc., or for front rows of perennial borders; about ten inches high.................5c.


A. BLANC. COPYRIGHTED.

GIANTS OF CALIFORNIA.

CARNATION

A beautiful, well-known and extremely popular flower; half hardy perennial; the Marguerite class, however, flowering the first year from seed and in a comparatively short time.

63—**Choice Double Mixed**....................10c.

Marguerite. One of the greatest acquisitions to the flowers which the amateur can conveniently grow, enabling all lovers of this beautiful flower to secure very satisfactory and immediate results without the usual care and time necessary to succeed with the Carnation of the older types. Flowers may be had from August until severe frost comes from seed sown in the spring, which have the characteristic form and fragrance of the Carnation proper, borne in greater profusion and on plants of more bushy and vigorous growth. Too much could not be said in praise of this, nor could it be too highly commended for the amateur's use.

64—**Choicest Mixed.** Complete assortment of colors....................10c.

MARGUERITE CARNATIONS ✤ Giants of California.

An improved, extra large flowered strain from California, of vigorous, robust habit but having the same dwarf compact form of above, blooming also as early and producing larger flowers, many of which are as *fine and more freely produced than those grown by florists in the greenhouse.* A very shy seeder.

65—**Mixed Colors.** Small pkt....................15c.

HARDY GARDEN CARNATIONS ✤ For Open Ground.

Plants of low, bushy, tufted form, producing on long stems the beautiful fringed flowers with their delightful clove fragrance, known as "Clove Pinks," so highly valued in the "old fashioned garden" and which merit a place in the perennial bed and border of today.

66—**Plumarius Double Mixed.** Double fringed, fragrant flower, white, crimson or purple shades, beautifully shaded and spotted....................10c.

67—**Plumarius Single Mixed**....................5c.

CASTOR BEAN Ricinus

Well known tender annuals; tall, stately, majestic plants of very rapid growth. with palm-like leaves of glossy green, brown or bronze hue; very effective for lawns, planted singly or in groups; 6 to 15 ft;

68—**Borbonensis.** Large showy foliage of purplish hue; 15 ft. ½ oz. 12c., oz. 20c....................5c.

69—**Cambodgensis.** Stalks and stems nearly black, leaves large, of a deep bronzy maroon; 6 ft. ½ oz. 15c, oz. 25c..5c.

70—**Sanguineus.** (Tricolor.) Stalks blood-red, foliage reddish bronze with scarlet seed pods; 6 ft. ½ oz. 12c., oz. 20c...5c.

71—**Zanzibarensis.** A comparatively new class, with gigantic leaves ranging in color from light green to bronzy maroon; 10 to 15 ft. Mixed varieties. ½ oz. 12c., oz. 20c..........5c.

72—**All Varieties Mixed.** ½ oz. 10c., oz. 15c..........5c.

ANNUAL CHRYSANTHEMUMS

FRENCH MARGUERITES OR PAINTED DAISIES.

Free-flowering plants of branching habit, with rich, finely cut and very ornamental dark green foliage, bearing on long stems daisy-like flowers of bright and varied colorings. These colorings on the single varieties are usually in distinct rings and look on the flat petals as though they were painted on. The double varieties withstand the heat of summer, blooming more freely than the single, the latter requiring cooler weather to bloom freely but are much more beautiful than the double. Both grow freely from seed, are of easy culture, very desirable for cutting, and are effective bedding plants.

They should be given plenty of room, from two to two and one-half feet, and will bloom more freely on soil of medium fertility. 1 to 1½ ft.

73—**The Sultan.** (Atro-Coccineum.) Large velvety single flowers, crimson maroon with golden ring..........5c.

74—**Eclipse.** Large single flowers, golden yellow with scarlet ring and brown disc....................5c.

75—**Single Mixed.** All colors....................5c.

76—**Corinarium Double Mixed**....................5c.

CANTERBURY BELL

CAMPANULA MEDIA.

> To me there's a tone from the Blue-bell flower
> With her blossoms so fresh when the storm is o'er,
> As she thanked the sun for his beams the while,—
> That flower has taught me to repay
> The friends who have cheered my stormy day,
> With a grateful bow and a sunny smile.
> —Flora's Interpretor.

Beautiful hardy biennial plant, of easy culture, a profuse bloomer, succeeding best in a light, rich soil; bearing flowers of rich and exquisite colorings. Like most biennials, it can be sown after mid-summer where it is to remain, or in the spring for transplanting. Plants should stand about two feet apart. 2½ ft.

77—**Double.** Mixed colors..................................5c.

78—**Single.** Mixed colors..................................5c.

CUP AND SAUCER CANTERBURY BELL.

(Companula Calycanthema.)

Flowers of this class are of peculiar form and strikingly beautiful, that part resembling a cup is about three inches in length or depth. and the saucer from three to four inches in diameter. This plant is a very free bloomer, often bearing during its season of several weeks in early summer a hundred or more of its exquisite blossoms, and is, when in full bloom, a pyramid of beauty.

79—**Mixed Colors**..5c.

CANARY BIRD FLOWER ❧ Tropaeolum Peregrinum.

80—A favorite half hardy annual climber of rapid growth, bearing curiously formed yellow flowers having a fancied resemblance to a canary bird; blooms from July until frost; 10 to 15 ft..5c.

CLARKIA.

Favorite hardy annuals, bearing beautiful, delicate, rose-colored, purple and white flowers; profuse bloomers; of easiest culture; 1½ ft.

81—**Mixed Colors**..5c.

COBEA.

82—**Scandens.** A rapid growing perennial climber, flowering the first year from seed, bearing flowers which are at first green, changing soon to deep violet or purple. It should not be sown in open ground until soil has become quite warm, and will germinate most readily if seed is pushed into soil edgewise and barely covered; 20 to 30 ft.............10c.

COCKSCOMB ❧ Celosia Cristata.

Popular annuals, producing flowers which somewhat resemble a cock's comb; of various colors, rose or crimson the most striking; of easy culture.

83—**Glasgow Prize.** Immense crimson combs; 1 ft.......5c.

84—**Mixed Colors**...5c.

COCKSCOMB FEATHERED ❧ Celosia Plumosa.

Of branching habit, producing large, graceful, plume-like flowers; beautiful and effective; 2 to 3 ft.

85—**Ostrich Plume.** Crimson..............................5c.

86—**Ostrich Plume.** Golden...............................5c.

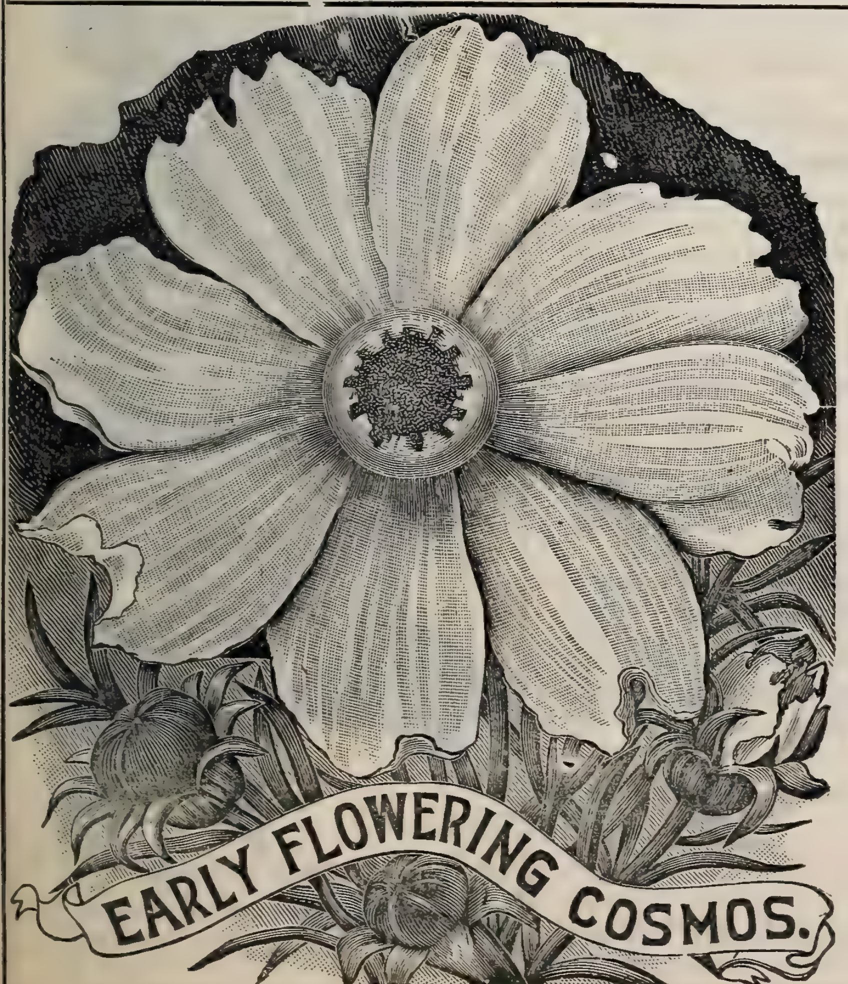
87—**Mixed Colors.** Crimson, orange, yellow, rose, etc....5c.

Columbine. (See Aquilegia.)

Convolvulus. (See Morning Glory.)

COREOPSIS ❧ For Annual Varieties See Calliopsis.

88—**Lanceolata.** A beautiful hardy perennial, flowering the first year from seed sown early; forming large clumps, growing from two three feet high, bearing on long stems large rich, yellow flowers in great profusion; very desirable for cutting; of the easiest culture, growing anywhere, and should be in every flower garden.................................5c.


EARLY FLOWERING COSMOS.

COSMOS

A rapid growing, graceful plant, with beautiful feathery foliage, bearing flowers which resemble the Single Dahlia; a very hardy annual of strong, vigorous habit, growing about five feet high in ordinary soil, and often eight feet in very rich. It is seldom given room enough; plants should stand not closer than two and one-half feet apart, and in rich soil a greater distance. The Cosmos makes a most desirable background for many other plants, its beautiful, finely cut foliage alone making it well worth the growing for this purpose; its value, however, is greatly increased by its lovely flowers, white, pink, crimson or rosy purple, borne in great profusion on long stems, rising above the foliage in an especially graceful manner, equally graceful in appearance when arranged in a vase with sufficient foliage; for this purpose but few other flowers are as desirable and none can be had so late in the season, as, owing to the great hardiness of the plant, it bears fine flowers even after the first light frosts have come.

89—**Mammoth Perfection.** Flowers of mammoth size, rather late in flowering and, as the plant is quite hardy, seed should be planted as early as possible and will then, in most seasons, produce a profusion of flowers before frost.....................5c

90—**New Early Flowering.** This, while flowers are not as large as those of the Mammoth, is growing in favor because of its earliness. If seed is sown in open ground in early spring, plants will begin to bloom the last of July and continue until November, making it, therefore, especially desirable in northern latitudes..5c.

CYPRESS VINE ❧ Ipomoea Quamoclit.

A very popular climber, with delicate, feathery foliage, bearing small, star-shaped rose, scarlet and white flowers, presenting a very pleasing contrast with the beautiful dark-green foliage. Tender annual; 12 to 15 ft.

91—**Mixed Colors**......................................5c.

DAISY ❧ Bellis Perennis.

A hardy perennial plant, of dwarf, compact growth, blooming freely during the cool months of spring and fall; flowers very double, about one inch in diameter, borne singly on a stem about five inches high. A beautiful little plant well adapted for edgings, and should be more generally cultivated. It bears transplanting well, even when in flower, and thrives best on richly manured soil and in a cool, partially shaded location.

92—**Mixed Colors**......................................10c.

Dianthus. (See Pink.)

Digitalis. (See Foxglove.)

DATURA.

93—Strong, vigorous plants, of branching habit, bearing large trumpet-shaped flowers six to eight inches long and very fragrant. Tender annuals; 3 ft. **Finest Mixed**........5c.

DUTCHMAN'S PIPE ❧ Aristolochia Sipho.

94—A beautiful, rapid growing climber, bearing curiously formed, purplish brown flowers, thought to resemble in shape a pipe. Hardy perennial; 15 to 30 ft..............5c.

ESCHSCHOLTZIA ❧ California Poppy.

Very showy hardy annual, with beautiful, delicately cut foliage, bearing bright yellow and scarlet flowers; one of our most attractive annual plants, blooming early and continuously. Succeeds best in light, rich soil, and should be sown where designed to grow, as it does not bear transplanting; 1 ft.

95—**Mixed Colors**......................................5c.

96—**Douglasii.** Plant very dwarf and compact, only six inches high; blooms very early, profusely, and when quite small; flowers small, clear lemon-yellow. Excellent for bedding or edgings......................................5c.

97—**Mandarin.** Bright scarlet, interior orange......................................5c.

EUPHORBIA VARIEGATA ❧ Snow-on-the-Mountain.

98—A showy, hardy annual plant, grown for its striking foliage. Leaves, dark green, veined and margined with white. Very effective in the garden or on the lawn......5c.

EUPHORBIA HETEROPHYLLA ❧ Mexican Fire Plant, or Annual Poinsetta.

99—This is somewhat similar to the brilliant Poinsetta, grown in pots in the greenhouse during winter and which is a very popular decorative plant. This, however, can be easily grown from seed in the open ground, which should be sown when trees are starting into leaf. It produces large bracts of fiery scarlet which, in contrast with the dark green foliage, make a striking and effective appearance......................................10c.

FORGET-ME-NOT ❧ Myosotis.

An old, well-known and favorite garden plant; hardy perennial, flowering the first year from seed sown early in the spring, succeeding best in cool, moist soil and thriving well in partial shade.

100—**Alpestris.** Plant dwarf and compact, about six inches in height; flowers star-shaped, blue......................................5c.

101—**Alpestris Alba.** Similar in habit of growth, but the florets are pure white......5c.

FOUR O'CLOCK ❧ Marvel of Peru. (Mirabilis.)

A well-known and favorite plant, bearing freely funnel-shaped white, red and striped flowers, which open about four o'clock in the afternoon and perish before noon the next day; of easy culture, will grow anywhere, but should be given plenty of room—at least three feet each way.

102—**Mixed Colors**......................................5c.

FOXGLOVE ❧ Digitalis.

Favorite perennial plants, of easy culture. Flowers borne on long spikes; 3 to 5 ft.

103—**Mixed Colors**......................................5c.

GALLIARDIA ❧ Blanket Flower.

A very free-flowering class of plants, entirely hardy, blooming the entire summer, of easiest culture and succeeding well in the poorest soils. Flowers brilliant and beautiful, 2 to 3 inches in diameter, borne singly on long stems; exceptionally fine for cutting.

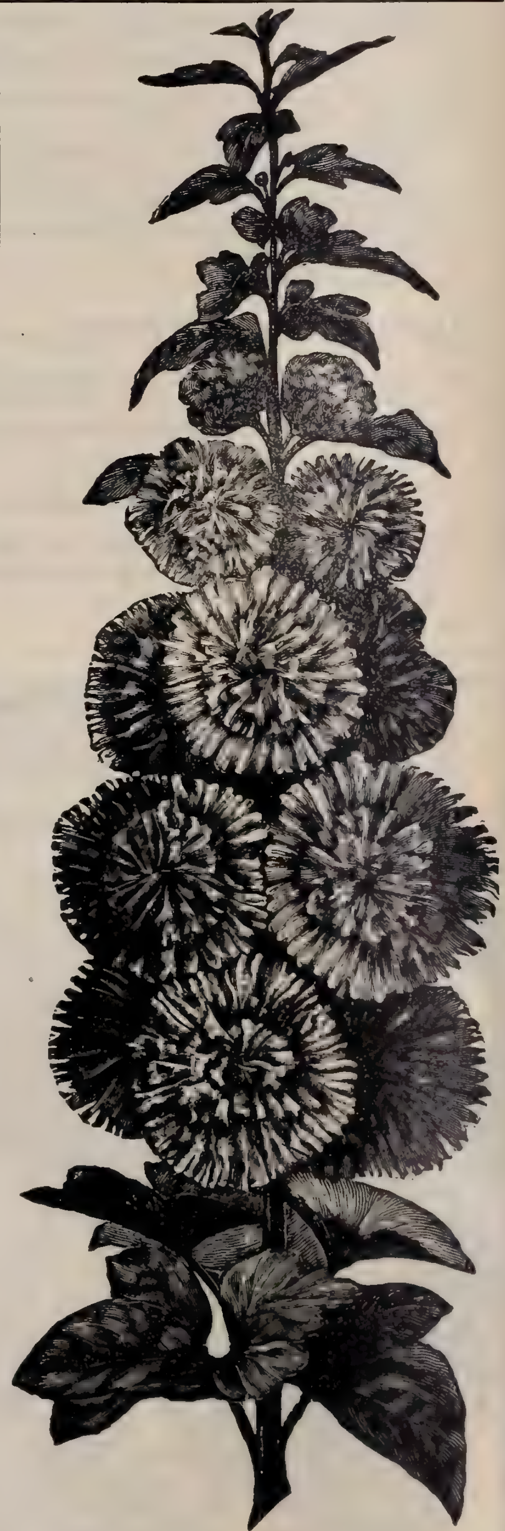
104—**Choice Mixed.** Comprising a wide range of colors in both single and double varieties; hardy annuals, some of which become perennial by protection of the roots in winter. 1 to 2 ft......................................5c.

105—**Picta Lorenziana.** (Double.) Large, round heads composed of many individual florets, richly colored in shades of bronze, brown, maroon, etc., brightly tipped with shades of yellow and creamy white; hardy annual. Mixed colors....................5c.

GODETIA.

Attractive hardy annuals of compact growth, bearing profusely large flowers beautifully colored; fine bedding plants of easy culture; 1 to 1½ ft.

106—**Mixed Colors**......................................5c.



Allegheny Hollyhock.

GOURDS.

Ornamental, tender annual climbers, bearing curiously formed and colored fruit. Of very rapid growth; useful for covering fences, stumps, etc.; 10 to 20 ft. 107—**All Varieties Mixed**......................................5c.

Gypsophila

Delicate, profuse flowering plants of easy culture. Hardy annuals and perennials.

108—**Muralis.** A beautiful little annual plant, with fine, feathery, grayish-blue foliage and very small, pink flowers. Grows only about six inches high, and because of that and the distinctive color of its foliage it is excellent and effective for edgings...5c.

109—**Elegans.** Hardy annual, about one foot in height, sprays well branched and thickly set with small, white flowers...5c.

110—**Paniculata.** (Commonly known as Baby's Breath.) Hardy perennial, bearing white flowers; of more branching habit and sprays are longer stemmed than the preceding; very desirable for combining with other flowers in bouquets or vases, especially Sweet Peas; and in our opinion is the only flower or foliage at all suitable for combining with those delicate, lovely flowers...5c.

HELIOTROPE.

A favorite perennial plant, highly prized for its delicious fragrance. We think it is not generally known that it can be had in bloom the first season from seed: but fine flowering plants can be easily grown from seed sown in the house in March. Soil should be light and rich, and young plants kept in a warm, sunny location. Sow seed in shallow boxes and transplant before plants become crowded into small pots. If desired for bedding, wait until nights are warm. Make the soil rich and give it an abundance of water.

111—**Mixed Colors**...5c.

HELICHRYSUM ☙ Or Everlasting Flower.

Free-blooming, hardy annual plant, of easy culture. The flowers are large, full and double, of various colors, white, scarlet, yellow, etc., and are often used when dry for winter bouquets.

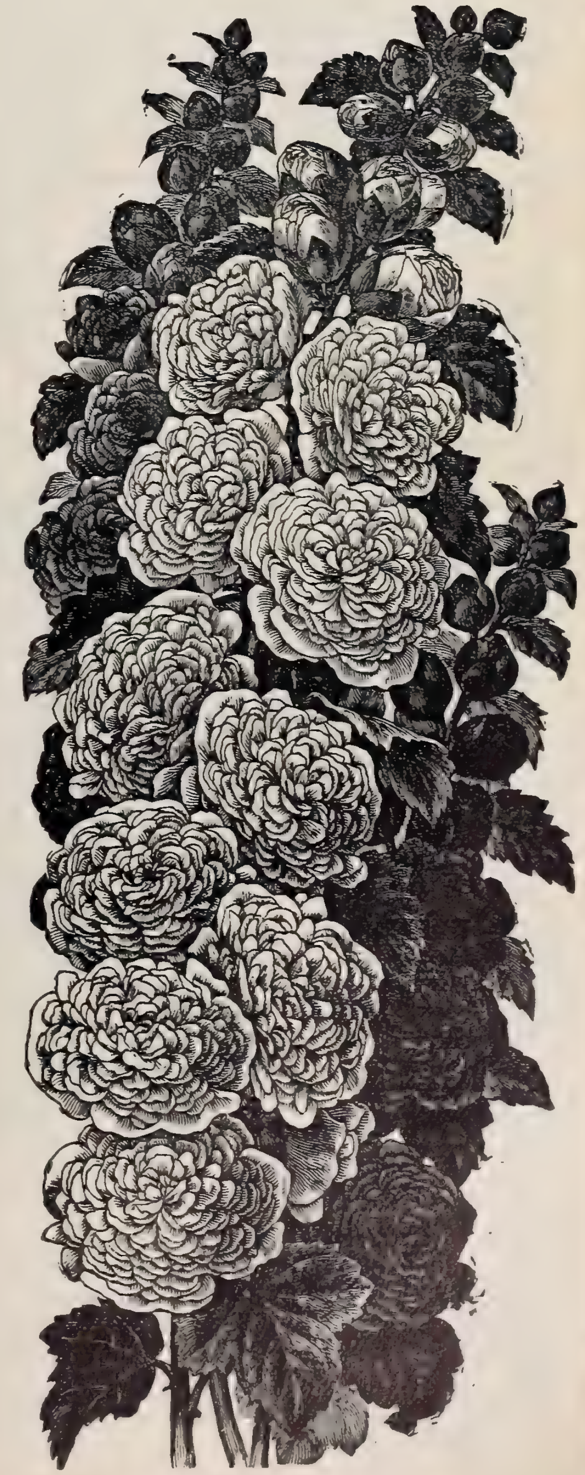
112—**Mixed Colors**...5c.

HOLLYHOCK ☙ "Queen Hollyhock, with Butterflies for Crowns."

This well-known plant has always been a great favorite, and is perhaps today more popular than ever. Stately and majestic in its growth, it is especially suited for a background to the perennial border. Although a biennial it becomes perennial by proper treatment, continuing to grow and bloom for several years if the flower spike is cut off as soon as through blooming. Seed may be sown at any time from spring until midsummer and will produce plants which will bloom the following season. The soil should be light, and rich, and well drained.

113—**Chater's Choicest Double Mixed.** This well-known, superb strain will produce a large percentage of double flowers in a wide range of colors, and has, as yet, not been surpassed...10c.

114—**Allegheny.** (New.) The flowers are not as double as those of the older form, but are distinctly beautiful. They differ both in form and in the manner in which they are disposed on the stem; every bud to the top of the plant develops, making the blooming season a long one. They are enormous in size, often six inches in diameter, of silky texture and beautifully fringed and colored........10c.



Improved Double Hollyhock.

HYACINTH BEAN ☙ Dolichos Lablab.

115—**Mixed.** A tender annual climbing plant, with purple or white flowers, which are followed by very ornamental seed pods. 10 to 15 ft...5c.

ICE PLANT. ☙ (Mesembryanthemum.)

116—A trailing plant, with succulent stems and leaves, which have the appearance of being covered with ice crystals; excellent for hanging baskets and rock work. Tender annual. ¾ ft...5c.

IPOMEA.

Rapid growing, annual climbing vines, with very luxuriant foliage, producing an abundance of showy flowers, white, pink, blue and purple. While both the flowers and foliage closely resemble that of the Morning Glory of most varieties, both are larger, although the flower of one of the following (Coccinea) is smaller and of different form, more nearly resembling that of the Cypress Vine. All should be more generally cultivated. 10 to 20 ft.

117—**Bona Nox.** (Evening Glory.) Beautiful, large, violet-blue flowers, which open in the evening...5c.

118—**Coccinea.** (Star Ipomea.) Plant similar to the Morning Glory; flowers small, star-shaped and produced in great profusion...5c.

119—**Grandiflora, Striped-Leaved.** The leaves of this are dark green, mottled with white; the flowers intense ultra-marine blue, edged with sky-blue and shaded with carmine pink in the throat...5c.

120—**Setosa.** A beautiful variety, of very luxuriant growth. The leaves are from eight to twelve inches across, the under sides being thickly set with small, reddish hairs, as is also the vine. The flowers are about three inches in diameter, produced in clusters, but one or two in each cluster opening at once; of a lovely satiny pink...5c.

121—**Choice Mixed.** Above and other varieties...5c.

LANTANA.

Favorite, rapid growing plants, forming small shrubs; profuse and constant bloomers, well adapted for pot culture, and are very effective planted singly in the garden. Tender perennials, flowering first year from seed if sown early; 1 to 3 ft.

122—**Mixed Colors**...5c.

LARKSPUR

DELPHINIUM

Popular annual, biennial and perennial plants, with finely cut leaves and beautiful flowers, which are either white, scarlet, pink, blue or purple, but never yellow; of easy culture, succeeding best in a location open to the sun.

123—**Double Dwarf Rocket.** Hardy annual; 1 ft.; mixed colors........................5c.

124—**Double Tall Rocket.** Hardy annual; 2½ ft.; mixed colors..5c.

125—**Elatum.** (Bee Larkspur.) Hardy perennial; flowers have curiously folded, hairy petals in the center, giving them a fancied resemblance to a bee. Intense blue, plant five feet high........................5c.

126—**New Compact Blue.** Hardy perennial, flowering freely the first year from seed, if sown early. Rich flowers, large, dark blue. Plant about one foot high, growing a little taller the second year, and blooming even more profusely..................10c.

127—**LAVENDER.** Hardy perennial plant, bearing long spikes of blue flowers; chiefly grown on account of its delicious fragrance, which the plant, when dried, retains for years..............5c.

128—**LINUM.** (Scarlet Flax.) A very showy and beautiful hardy annual, bearing profusely bright, scarlet flowers; 1 ft.........5c.

THE MISSION OF FLOWERS.

Violet, why are your eyes of blue
Wet with tears of the morning dew?
Rosebud, why do you blush and start,
And hide the crystal gem at your heart?
Lily, what are you doing there,
With your bells a-swing in the balmy air?

A light breeze born of the morning hours
Softly stole o'er the banks of flowers;
And, list'ning closely, I seemed to hear,
Chimed in silvery voices clear—

"We are blessing the earth with our wealth of bloom;
We are lading the air with a rare perfume;
All things have their mission, and God gives us ours,
And this is a part of the mission of flowers:
To give life to the weary and hope to the sad,
Fresh faith to the faithless, new joys to the glad;
To cheer the desponding, give strength to the weak;
To bring health's bright bloom to the invalid's cheek;
To blush on the brow of the beautiful bride;
To cheer homes of mourning where sorrows betide;
To rob dreaded Death of a part of his gloom,
By decking the dear one arrayed for the tomb;
To furnish the home with a lasting delight,
With our perfumes so lovely, our blossoms so bright;
To hallow the homestead, embellish the lawn,
Reflecting the tints of the roseate dawn.
In low, voiceless language, we're striving to tell
How God, in His wisdom, doth everything well."

—Dart Fairthorne.

LOBELIA.

Pretty, graceful, little plants; those of trailing habit being used for hanging pots and rockeries, and those of dwarf, compact habit for edgings and bedding.

129—**Gracilis.** Light blue, slender trailer, half hardy annual; ½ ft..5c.

130—**Crystal Palace, Compacta.** Of dwarf, compact growth, excellent for edgings; blue. Half hardy annual; ½ ft.....5c.

131—**White Gem.** Plant of similar habit to the preceding variety; flowers pure white..............................5c.

132—**Cardinalis.** (Cardinal Flower.) This is a native species, of greatly different habit from the others, growing about two feet high. Though usually found when growing wild in moist places, it succeeds well in the common border and is one of the best perennials for the shady side of the house. Its spikes of intensely brilliant, cardinal red flowers make it one of the most effective plants.........................10c.

LOVE-IN-A-MIST ✤ Nigella Damascena.

A favorite annual, bearing blue and white flowers half hidden by the fine, feathery foliage. Known also as Lady-in-the-Green and Devil-in-the-Bush; 1 ft.

133—**Mixed**..5c.

LUPIN.

Very showy plant, bearing spikes of pea-shaped blossoms of rich and varied colors; a free bloomer and easily grown. Hardy annual; 1½ to 3 ft.

134—**Mixed Colors**....................................5c.

LYCHNIS ✤ London Pride—Burning Star.

Hardy perennials, some of which will flower the first year from seed, and but few plants produce more brilliant blossoms. The plant blooms freely and continuously, bearing its clusters of scarlet flowers through the entire summer.

135—**Chalcedonica.** (London Pride.) Bright scarlet; 2 ft...5c.

136—**Haageana.** Bright scarlet flowers, larger than those of the preceding. Plant about one foot high and will bloom the first year...10c.

MIGNONETTE ✤ Resada odorato

A well-known and popular hardy annual, highly prized for its delightful fragrance. While blooming freely at all times, much larger and finer spikes are produced during the cool, moist weather of early spring and late fall. Seed sown in autumn will bloom in early spring, and when sown the last of July will come into flower in a few weeks and continue until cut down by frost.

137—**Sweet Mignonette.** Large flowered; ½ oz. 10c., oz. 15c...5c.

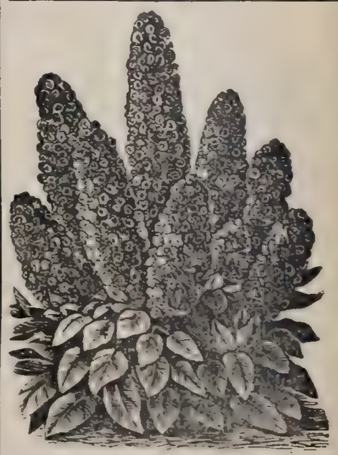
138—**Parson's White.** Nearly white; fragrant...............5c.

139—**Golden Queen.** Flowers golden yellow. Growth dwarf but dense........................5c.

140—**New Quaker City.** Flowers a handsome gold red, rich and fragrant; foliage very dark....5c.

141—**New Giant Flowered Red.** Form pyramidal, quite distinct, very striking and handsome...5c.

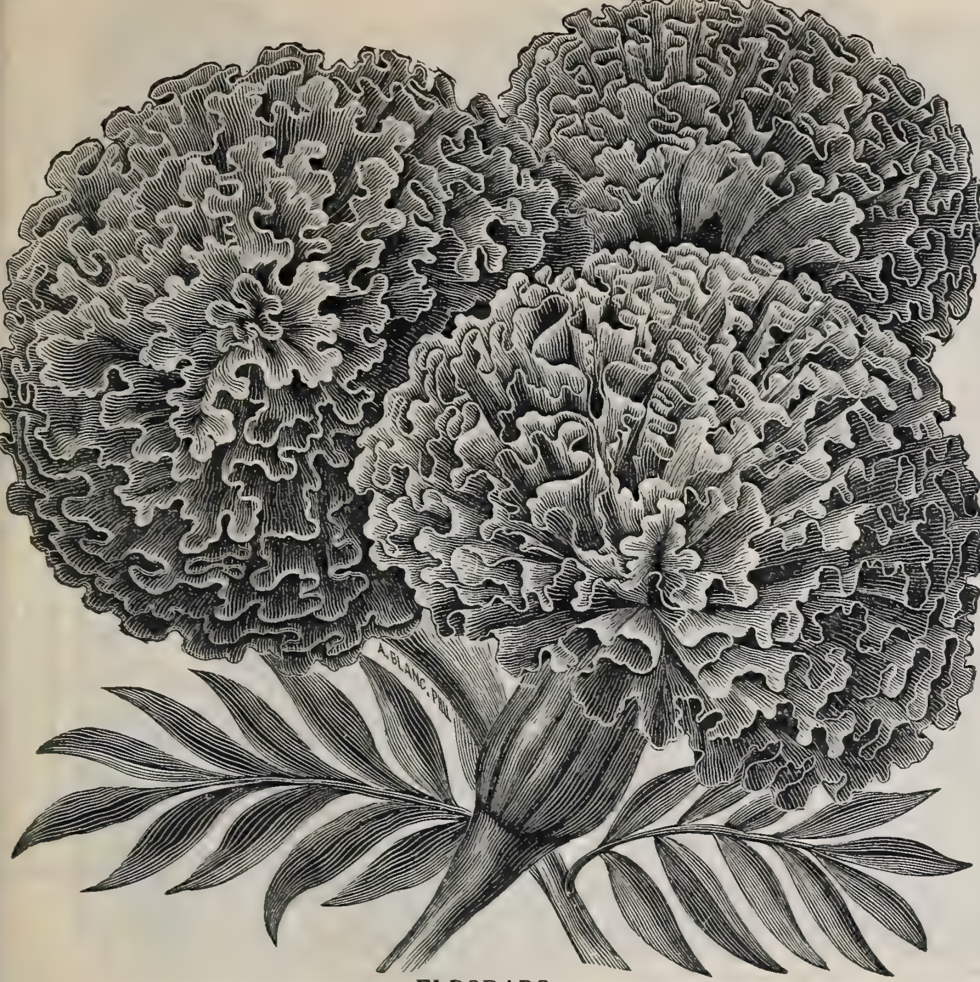
142—**Choice Mixed.** Our own mixture of the above and other varieties. ½ oz. 15c., oz. 25c...5c.



DWARF Morning Glory CONVOLVULUS MINOR.

Plant of trailing, branching habit, growing about one foot high and in diameter about two feet, and bearing in great abundance small, bell-shaped flowers similar to the tall varieties. These remain open much later in the day than do those of the tall sorts, often in clear weather till evening. Half hardy annual.

143—**Mixed Colors**..5c.


A. BLANC, PHIL.

ELDORADO.

MARIGOLD

> Open afresh your round of starry folds,
> Ye ardent Marigolds!
> Dry up the moisture of your golden lids,
> For great Apollo bids
> That in these days your praises shall be sung
> On many harps, which he has lately strung.
> —KEATS.

Well-known plants, blooming freely and constantly. The African varieties are usually tall, the French more dwarf. Both are great favorites. Hardy annuals. 1 to 3 feet.

144—**African Double.** Mixed..................5c.

145—**African, Eldorado.** Flowers very large and extremely double; quilled like a Dahlia; various shades of yellow and orange. 3 ft..........5c.

146—**French Double.** Mixed..................5c.

147—**French Double Dwarf, Gold Striped.** Golden yellow striped with velvety brown..........5c.

148—**French Legion of Honor.** A beautiful single variety of dwarf and bushy habit, rich golden yellow, with garnet blotch in center of petal. 1 ft...5c.

MOON FLOWER. 148½. A rapid growing climber, often attaining a height of 30 feet in a season. Especially adapted to shading porches, etc. To secure flowers in northern latitudes seed should be started early in the house and then be planted out in rather poor soil, else it will run too much to vine. The thick outer shell of the seed should be cut through or a portion chipped off to assist germination....10c.

Morning Glory ~ Convolvulus Major. . . . .

> Flowers, shrinking from the chilly night,
> Droop and shut up; but with fair morning's touch
> Rise on their stems, all open and upright.
> —MONTAGUE.

149—**Mixed.** All colors. ½ oz. 10c., oz. 15c.............................5c.

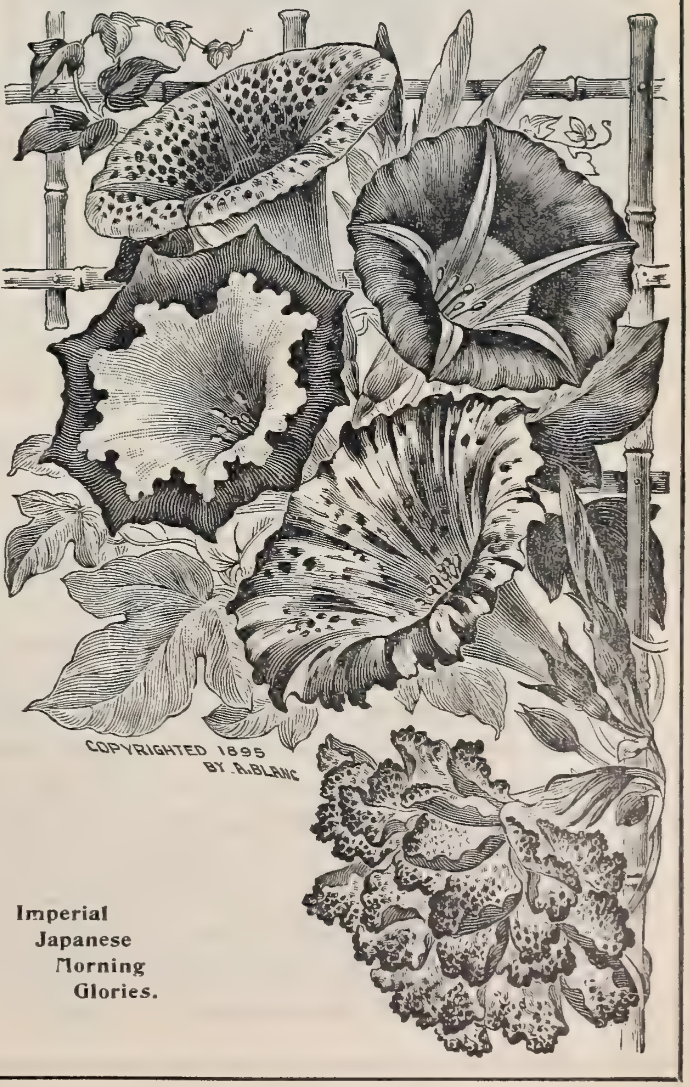
150—**Double White Tassel.** A new, very distinct and beautiful variety. The plant is of rapid growth, blooms early and as profusely as the common Morning Glory. The flowers are double and of snowy whiteness. The seed we offer will produce a much larger proportion of double flowers than any seed of double varieties yet imported from Japan..................10c.

Imperial Japanese Morning Glory.

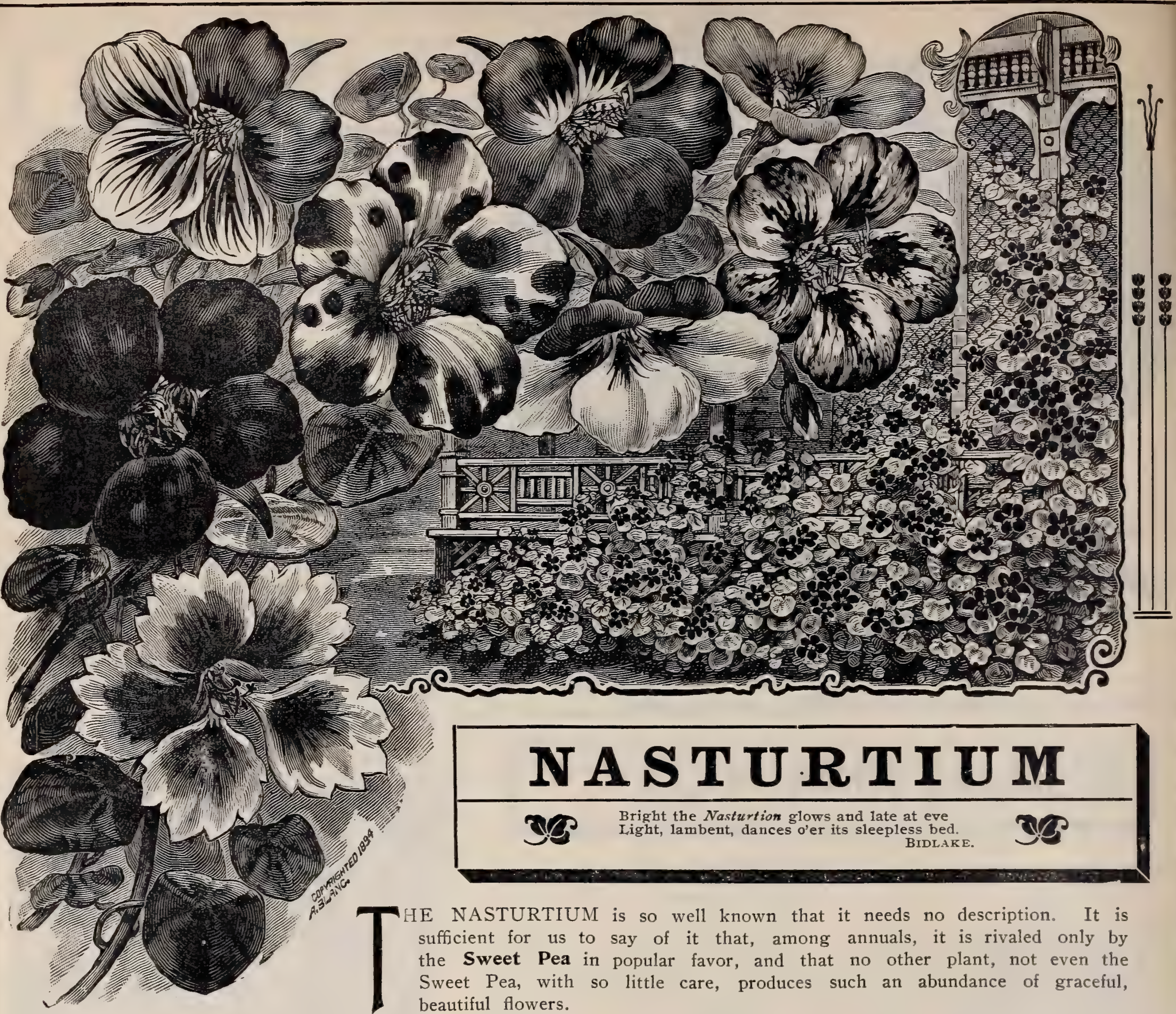
Every Season Increases the Popularity of this Beautiful Flower.

Among the many wonderful novelties in the floral line introduced into this country from Japan, there is perhaps nothing which better attests the great skill of the Japanese florist or gardener than this superb strain ot Morning Glory. Not only are the flowers of an almost endless variety of coloring, but the foliage, as well, is greatly varied and very attractive. The flowers are much larger than those of the old strain and fully as freely produced. Some are brilliant red and some clear blue; others are equal in brilliancy, margined or bordered with clear white. Some are striped or blotched with red or blue on white or yellow ground, and others clouded with blue and red. In fact the many variations are almost indescribable, and one may expect to find each morning some new combinations of colorings. The large leaves are of varied form; some are plain green and some green mottled with white, while others are yellow or yellowish-green. So beautiful and effective is this plant and so simple is its culture that it would seem that none who once learned its merit could possibly fail to cultivate it.

151—**Choicest Mixed.** Comprising seed from several noted growers, both American and foreign, insuring *the greatest possible diversity* in color of flowers and of foliage. ½ oz. 15c., oz. 25c.............................5c.



Imperial
Japanese
Morning
Glories.



NASTURTIUM

Bright the *Nasturtion* glows and late at eve
Light, lambent, dances o'er its sleepless bed.
BIDLAKE.

THE NASTURTIUM is so well known that it needs no description. It is sufficient for us to say of it that, among annuals, it is rivaled only by the **Sweet Pea** in popular favor, and that no other plant, not even the Sweet Pea, with so little care, produces such an abundance of graceful, beautiful flowers.

TALL NASTURTIUM ✤ Tropaeolum Majus.

152—**Atropurpureum.** Rich, dark crimson. Oz. 15c.....5c.

153—**Dunnett's Orange.** Bright orange, blotched red. Oz. 15c.....5c.

154—**Edward Otto.** Light brown with yellow calyx and spur. Oz. 15c.....5c.

155—**Golden Leaved Scarlet.** Deep scarlet, with light yellow foliage. Oz. 20c.....5c.

156—**Heinmanni.** Chocolate Brown. Oz. 20c.....5c.

157—**Luteum.** Clear light yellow; large. Oz. 20c.....5c.

158—**Pearl.** Very pale yellow, nearest approach to white. Oz. 20c.....5c.

159—**Prince Henry.** Yellow, marbled scarlet. Oz. 15c.....5c.

160—**Regelianum.** Deep purple violet. Oz. 15c.....5c.

161—**Scarlet.** Very intense scarlet. Oz. 15c.....5c.

THREE GIANT-FLOWERED TALL VARIETIES.

162—**Sunlight.** This beautiful variety is of strong, vigorous growth and blooms profusely. The flowers are of the largest size, often nearly *three inches across;* a clear golden yellow. The petals are large, of rounded form, daintily crinkled. The two upper ones have fine, brown lines at the base; the three lower are more distinctly bearded or fringed at the throat than other varieties.

163—**Moonlight.** This is nearly the counterpart of the "Sunlight," differing only in color, which is a lovely pale yellow or straw color. It is equal in size and has the same crinkly or crepe-like petals. It is a worthy companion of the preceding rather than a rival, and when grown side by side both show how aptly they are named.

164—**Salmon Queen.** A beautiful variety, with dark green foliage, bearing flowers of the largest size and beautifully colored. Of a rich but soft, velvety shade of salmon, the two upper petals heavily veined with crimson in the throat. A fitting companion to Sunlight and Moonlight, and a variety with which none can but be pleased.

Each variety, pkt. 5c., oz. 15c., ½ lb. 40c.

NASTURTIUM--Continued.

LOBB'S Tall Nasturtium; (Tropæolum Lobbianum.)

This class differs from the common or *Majus* in being of a more free flowering habit and in the greater brillancy of its flowers. Both foliage and flowers are slightly smaller and it is not as rank in growth as the common. The greater profusion of bloom and brilliancy of color makes it the more desirable to many.

165—**Cardinal.** Cardinal red; purplish-green foliage.

166—**Crown Prince of Prussia.** Rich brownish-crimson with veinings of a deeper shade.

167—**Crystal Palace.** Bright orange-yellow with bronzy-crimson markings at base of each petal.

168—**Giant of Battles.** Sulphur-yellow with carmine markings.

169—**King of the Blacks.** Very dark red, foliage dark green.

170—**Lucifer.** Deep crimson-red, dark foliage.

171—**Mercier Lacombe.** Purplish-violet.

172—**Queen Victoria.** Rich orange-scarlet.

173—**Spitfire.** Brightest scarlet; very free bloomer.

Each variety, pkt. 5c., oz. 15c., 2 oz. 25c., ¼ lb. 40c.

174—**Lobbianum Choicest Mixed.** A mixture of above and other varieties. Pkt. 5c., oz. 10c., ¼ lb. 30c.

TALL NASTURTIUM.

175—**Hybrids of Madame Gunter.** A beautiful strain, having a wide range of distinct colorings, salmon tints striped and blotched with different shades of red predominating, but embracing pink, rose, crimson, maroon, purple, light yellow and orange in self-colors as well as striped and blotched. For richness and variety of colorings this class is not surpassed by any other nor does any other bloom more freely. Pkt. 5c., oz. 15c., ¼ lb. 40c.

176—**New French Chameleon.** A wonderful new variety, having the peculiar property of producing flowers of *many distinct colorings upon the same plant.* The flowers are not only of different colors but are variously blotched, striped and bordered with contrasting shades. On the same plant appear at once clear self-colored flowers, others stained or flushed on a clear ground, and still others edged or banded with lighter or darker shades. Pkt. 5c., oz. 15c., ¼ lb. 40c.

Tall Nasturtium MIXTURES.

177—**Tall Mixed, all Colors.** A choice mixture, of which we have sold in the past few years large quantities. It comprises many distinct colorings and is fully equal to most of the mixtures generally offered. Being, however, mostly grown in mixture, it is not guaranteed to contain all of the most desirable varieties, but will, nevertheless, afford an effective display, surpassed only by the Worcester Tall Mixed. Pkt. 5c., oz. 10c., ¼ lb. 25c., lb. 90c.

178—**Worcester Tall Mixed.** In this mixture we have one which cannot be surpassed. It embraces many named varieties, including such as the *Giant-Flowered Sunlight, Moonlight and Salmon Queen, The Hybrids of Madame Gunter, New French Chameleon,* and all of the best of the *Majus* and *Lobbianum* classes. This mixture is made by ourselves and we therefore know *just what it is,* and can confidently recommend it as the *best that can be made.* Pkt. 5c., oz. 15c., 2 oz. 25c., ¼ lb. 40c., lb. $1.25.

Nasturtium DWARF, OR TOM THUMB.

This class blooms as freely as the Tall, and, being as well-known, requires no description or commendation. The following list of varieties comprises all of the best and most distinct. *A package of Nasturtium contains from thirty to forty seeds.*

179—**Aurora.** Bright chrome-yellow, veined with carmine.

180—**Beauty.** Orange, with bright scarlet markings.

181—**Brilliant Yellow.** Clear, bright, glossy yellow. A beautiful variety. Pkt. 10c., oz. 25c.

182—**Bronze Colored.** A very distinct and peculiar shade.

183—**Cloth of Gold.** Brilliant scarlet. Foliage golden yellow, distinct and pleasing; excellent for edge of bed of Nasturtiums, or foliage plants, or for combining with dark leaved varieties like *Empress of India, King Theodore, etc.*

184—**Cœruleum Roseum.** Bright cherry-red. A distinct shade.

185—**Crystal Palace Gem.** Rich sulphur-yellow, spotted with carmine.

186—**Empress of India.** Dark rich scarlet. Foliage bronzy purplish-green. Plant dwarf and compact; fine for edgings.

187—**General Jacqueminot.** Crimson scarlet, like *Jack Roses.* Foliage beautiful, dark green.

188—**Golden King.** Rich orange. Dark purplish foliage.

189—**King Theodore.** Rich velvety crimson. Dark foliage. Very desirable.

190—**King of Tom Thumbs.** Brilliant orange-scarlet. Foliage dark green.

191—**Pearl.** Pale primrose, often described as white.

192—**Prince Henry.** Pale yellow, heavily suffused with rose. A distinct and desirable variety.

193—**Rose.** Bright rose. A small flowered but charming variety.

All varieties at uniform prices except where noted.
Pkt. 5c., oz. 15c., 2 oz. 25c., ¼ lb. 40c.

⊛ NASTURTIUM--Continued. ⊛

DWARF Nasturtium.

194—**New French Chameleon.** This is identical with the *New Tall Chameleon* in the feature of producing flowers of greatly diversified colorings and markings on the same plant, the plant, however, being of the true dwarf type, and is perhaps even more striking than the *Tall Chameleon*. A pleasing novelty, which all growers of the Nasturtium should try. Pkt. 5c., oz. 15c., 2 oz. 25c., ¼ lb. 40c.

195—**Liliput.** A new, distinct and charming strain, of very dwarf, compact habit, which originated from the tall *Tropœolum Lobbianum*. It has the same desirable features of great brilliancy of coloring and free-flowering habit. The plant is smaller than the common strain of *Dwarf Nasturtium*, as are the light green leaves. The flowers also are smaller, but so profusely borne that they appear above the foliage in clusters and embrace many new and beautiful colorings. Very desirable for edgings. Pkt. 5c., oz. 15c., 2 oz. 25c., ¼ lb. 40c.

Dwarf Nasturtium MIXTURES.

TWO—One Good, the other Better.

196—**Dwarf Mixed, all colors.** For so many years have we sold this mixture that we unhesitatingly say it is a *good* one, despite the fact that we offer another—a better one—which we advise planting in preference to this. Although this, like the *Tall Mixed* is largely grown in mixture, it, like that, embraces a wide range of colors and, also like that, has given great satisfaction to our many customers who have used it. Pkt. 5c., oz. 10c., ¼ lb. 25c., lb. 90c.

197—**Worcester Dwarf Mixed.** In addition to all of the preceding named sorts, including the new *Chameleon*, we have selected other choice varieties of the large flowered type, all of which combined make a mixture which for pleasing variations cannot be surpassed. We advise its use in preference to the regular mixture, believing that the wider range of color will much more than offset the slight difference in price. Pkt. 5c., oz. 15c., 2 oz. 25c., ¼ lb. 40c., lb. $1.25.

Collections of Nasturtiums.

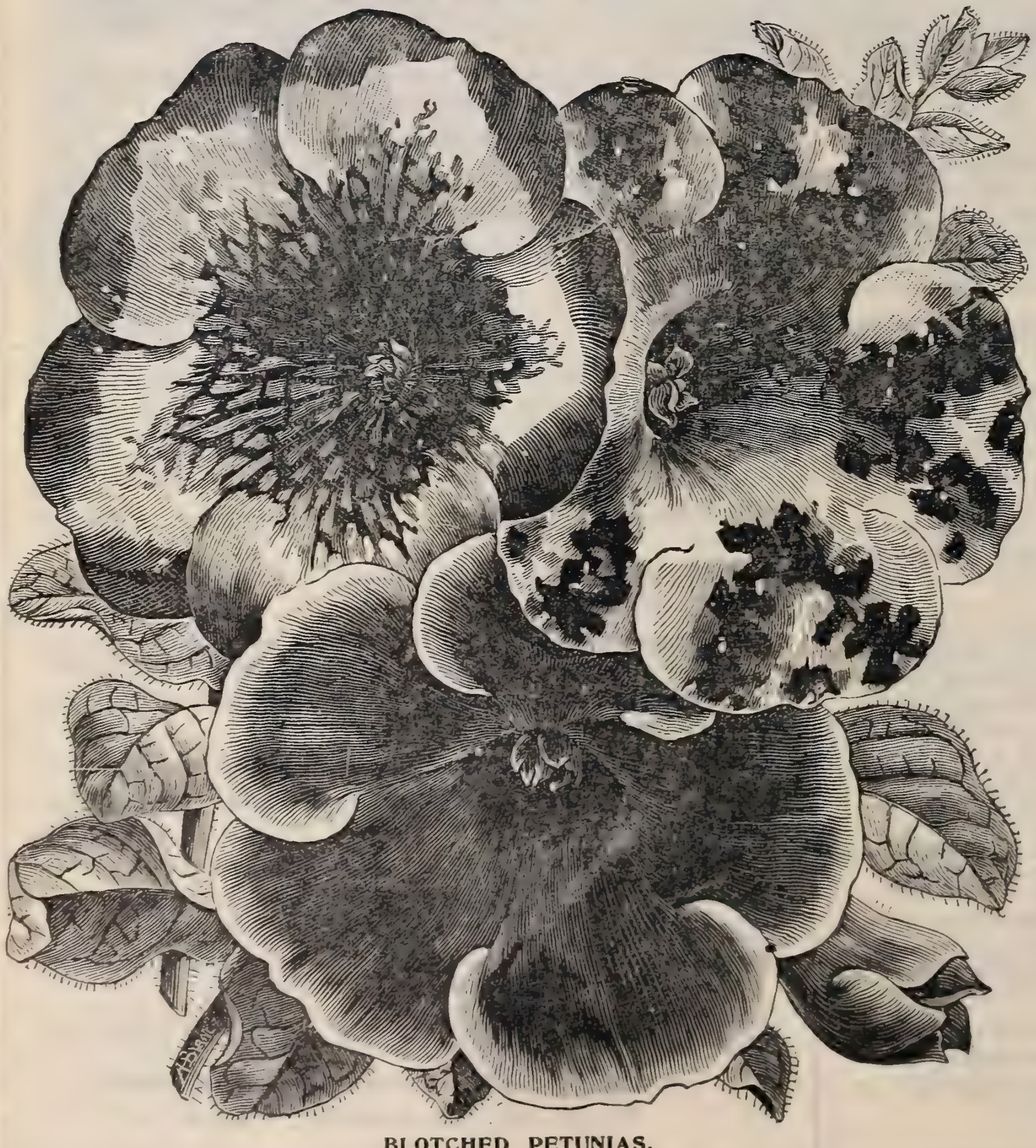
So popular have our collections of Sweet Peas always been that we now offer Nasturtiums in collections, enabling those who prefer to know just what varieties they are to receive to secure a large number, distinct and varied in color, at a greatly reduced price.

198—**Our Special Collection of Dwarf Nasturtiums.** Ten named varieties, our selection, but including the *New French Chameleon* and *Liliput*.......................................30c.

199—**Our Special Collection of Tall Nasturtiums.** Ten named varieties, our selection, but including *Sunlight*, *Moonlight* and *Tall Chameleon*...................................30c.

200—**Our Favorite Collection.** One packet each of Tall Nasturtiums—Sunlight, Moonlight, Salmon Queen, New Tall Chameleon, Golden-Leaved Scarlet, Prince Henry, Pearl, Rose, and one each of Dwarf—Bronze Color, Cloth of Gold, Cœruleum Roseum, Empress of India, King Theodore, Rose, New Chameleon and Liliput—16 varieties for 40 cents.

The packets in these collections are not specially prepared for this—that is, having but few seeds—but are just what we sell at our counters for 5 cents each—*full size*, containing from 30 to 40 seeds. Our Special Offer *does not apply* on collections, nor can there be any further discount, regardless of number purchased.



BLOTCHED PETUNIAS.

PETUNIA.

201—**Dwarf Inimitable.** Of compact habit and growing but five to eight inches in height, bearing profusely small striped flowers ....10c.

202—**Grandiflora.** Choicest Mixed. Extra large flowers, with larger and more open throat than that of common type. Plant of robust growth and of free flowering habit...................................10c.

203—**Finest Striped and Blotched.** A choice assortment of striped and blotched varieties of many exquisite markings. 10c.

204—**Good Mixed**.......................5c.

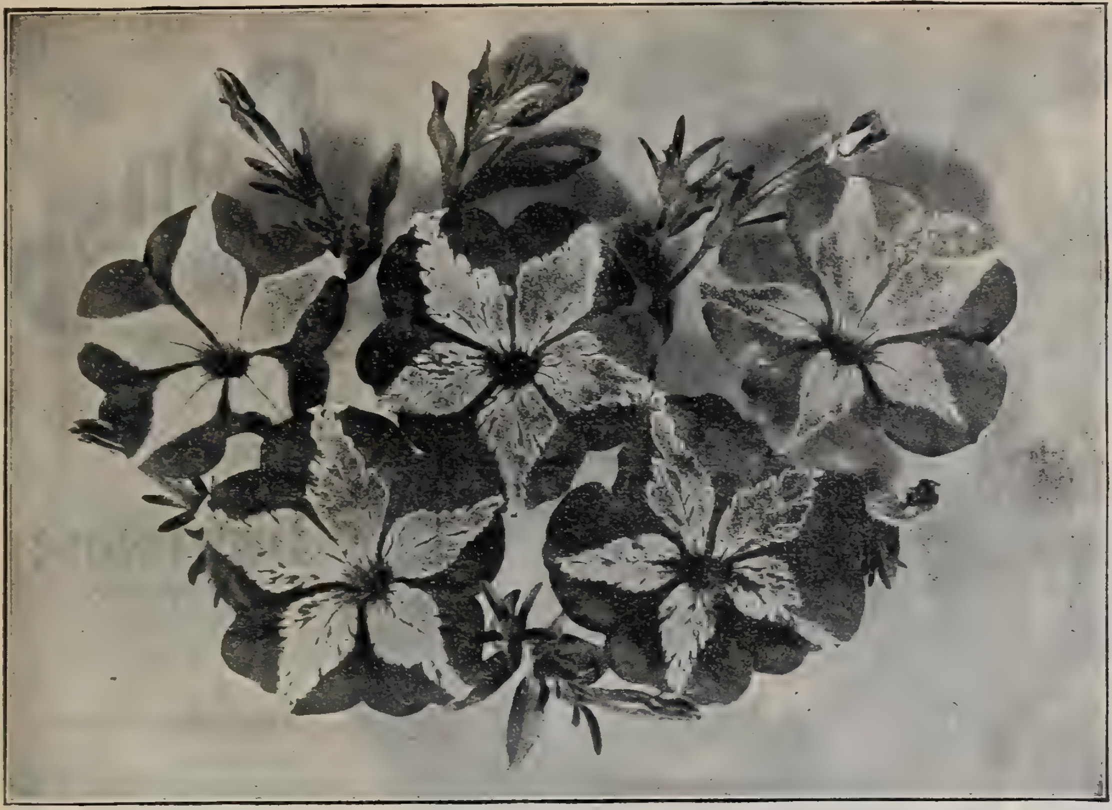
A New Strain of Petunia.

"Giants of California"

This new strain was developed in California. The flowers are nearly all ruffled or fringed and are often *five inches* in diameter. It embraces a wide range and many beautiful combinations of colors—some with deep throats of yellow, green, maroon, black or white veined, blotched or striped with contrasting shades. The plant is of vigorous habit. A superb strain, which all lovers of the Petunia should try.

205—**Choicest Mixed**.................25c.

It might be well for us to mention that the seeds of Petunia being so very small it often appears as though there were but few seeds in a packet, whereas a packet contains from 150 to 300 seeds.



Petunia

Howard's New Star Petunias

THESE ORIGINATED with Messrs. A. B. Howard & Son, of Belchertown, Mass., who say of them:—"For a period of over twenty years we have made it a study to improve the single flowered, medium sized, multi-flora type of Petunias. By a long course of selection, cross-fertilization and breeding, covering these many years, our efforts have been successful in developing a strain of Petunias that for richness of color, beautiful markings, pleasing form of the flowers that cover the plants in wonderful profusion have won the distinction from expert judges of being, 'the most beautiful Petunias in the world,' a 'new creation,' and 'a revelation to the flower grower.'"

The flower is about two and one-fourth inches in diameter. Their ground color is a dark, crimson maroon, with a rich, velvety texture, justly pronounced equal to that of the Pansy. Showing through the ground color are violet veinings. From the center starts the points of a five rayed star, which broadens half way up, narrowing to a point at the margin of the flower. This star is a very light, blush pink, some almost white, which deepens in color as it reaches the margin and finally blends with the maroon ground color. Over eighty per cent of the plants from seed will produce the star markings. Others with veined and feathery markings on dark or light ground are not less surprisingly beautiful. The plants are free growers, branching freely and attaining an average height of 18 by 24 inches in diameter. They are remarkably prolific bloomers, single plants often having one hundred or more fully expanded flowers at a time.

SEED OF HOWARD'S STAR PETUNIA.

Seed of Howard's Star Petunia is offered only in their original packets. We cannot allow any further discount from these prices.

206—Full size packets, each containing not less than 150 seeds, **25 cents, five packets for $1.00.**

206½—Half size packets, each containing not less than 75 seeds, **15 cents, two packets for 25 cents.**

WHAT OTHER PEOPLE SAY OF HOWARD'S STAR PETUNIAS:

[Taken from Messrs. Howard & Son's Circular to the Trade.]

[From C. L. Allen, Seed Grower.]

FLORAL PARK, N. Y., October 20, 1901.

Messrs. A. B. Howard & Son:

I take great pleasure in saying your Petunias surpass anything I ever saw of that class of flower, for form, for color and markings. Their intensity of color is something wonderful. I have never seen any to compare with them.

Yours very truly,
C. L. ALLEN.

Professor S. T. Maynard, of the Massachusetts Agricultural College, an expert horticulturist, says:

AMHERST, Mass., October 10, 1901.

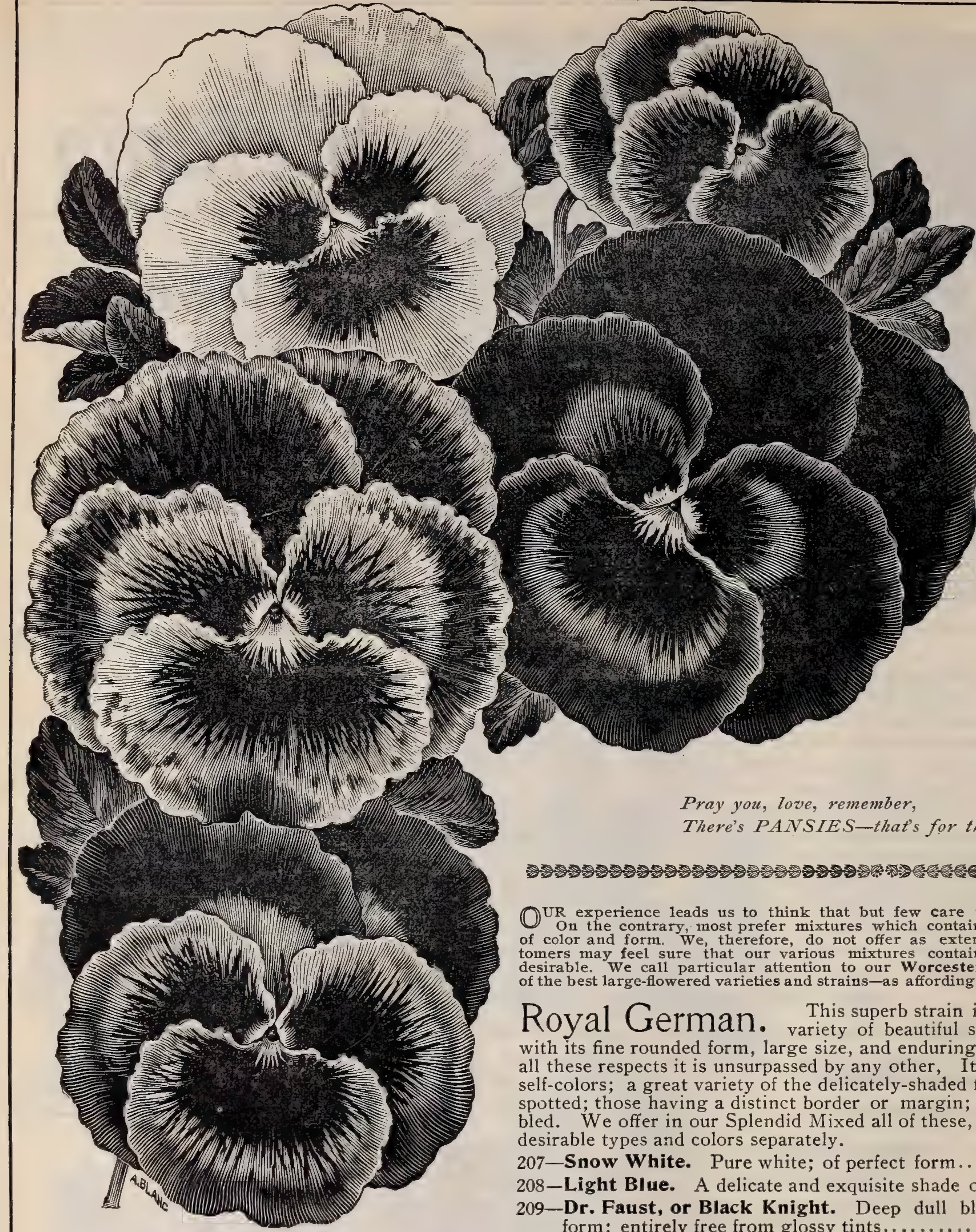
Among the many new varieties or novelties among the common flowers of our garden, nothing is more beautiful than the 'Star Petunias' of A. B. Howard of Belchertown. Mr. Howard has devoted many years and a great deal of skill in improving the petunia by hybridization and selection and has produced a variety of the greatest beauty and fixed characteristics, causing remarkable tone to the two types of 'Star' and 'Feathered Star' blossoms. The colors are distinct and beautiful.

SPRINGFIELD, Mass., October 20, 1901.

Messrs. A. B. Howard & Son, Belchertown, Mass.

Dear Sirs:—I wish to congratulate you on the success which has attended your labors in breeding a strain of petunias that I consider stands unrivaled for perfection. I find that over 90 per cent come true from seed. I have bought and grown petunias from the largest seedmen in Germany, France and Italy, and yours stands today the leader of all varieties for bedding.

CHARLES L. BURR,
Secretary Springfield Amateur Horticultural Society.



Pansy

Heartsease

LOVE-IN-IDLENESS.

Heartsease!
One could look for half a day
Upon this flower.
—MARY HOWITT.

Pray you, love, remember,
There's PANSIES—that's for thought. —SHAKSPEARE.

OUR experience leads us to think that but few care to sow many separate colors. On the contrary, most prefer mixtures which contain the greatest possible variety of color and form. We, therefore, do not offer as extensive a list as many, but customers may feel sure that our various mixtures contain all the colors and varieties desirable. We call particular attention to our **Worcester Giant Mixed**—a combination of the best large-flowered varieties and strains—as affording the largest possible variations.

Royal German. This superb strain is notable for its very great variety of beautiful shades of coloring together with its fine rounded form, large size, and enduring quality of the flowers. In all these respects it is unsurpassed by any other, It comprises all the solid or self-colors; a great variety of the delicately-shaded flowers; the three and five spotted; those having a distinct border or margin; the fancy striped and marbled. We offer in our Splendid Mixed all of these, and also some of the most desirable types and colors separately.

207—**Snow White.** Pure white; of perfect form........................10c.

208—**Light Blue.** A delicate and exquisite shade of light lavander blue..10c.

209—**Dr. Faust, or Black Knight.** Deep dull black; very large and fine form; entirely free from glossy tints..............................10c.

210—**Deep Yellow.** Fine large flower; self-colored; of a rich golden yellow..10c.

211—**Rainbow.** So called from its bright, glowing colors; flowers reddish-lavender, shaded with white, pink and carmine..10c.

212—**Odier, or Five-Spotted.** Flowers large, of great beauty and of varied coloring. Each petal has a large spot or blotch of darker color and a distinct border of different shade.10c.

213—**Fancy Varieties.** Choicest Mixed. This mixture contains all of the best types of striped, blotched, mottled and edged flowers; of large size and rounded form, peculiar to the German varieties......................................10c.

214—**Show Varieties.** Choicest Mixed. A choice assortment of solid or self-colored varieties only, having the usual characteristics of the Royal German Pansies............10c.

215—**Royal German. Splendid Mixed**..................10c.

All of the above and other varieties, ⅛ oz. 65c., ¼ oz. $1.25.

GIANT TRIMARDEAU.

216—Mixed. A distinct class, with enormous flowers of rich and varied shades distinctly marked with large blotches on three lower petals. A charming and desirable strain of French origin, lacking somewhat the broad round form of the German varieties, but which, on account of its size and beauty, is a very popular one..........................10c.

⅛ oz. 40c., ¼ oz. 65c., oz. $2.25.

PANSY -- Continued.

EXTRA LARGE FLOWERED.

217—Choice Mixed. A selection of extra large-flowered varieties containing a large proportion of the separate colors of German Pansies, with the usual characteristics of these flowers. On account of their substance, especially desirable for cutting. While not as desirable as the following for bedding, yet for early spring blooming this will be very satisfactory, especially to those who prefer large flowers rather than a greater profusion of smaller ones......................10c.

⅛ oz. 30c., ¼ oz. 50c., oz. $1.50.

SPECIAL MIXTURE—For Bedding.

218—This mixture is made of such varieties as experience has shown are best adapted for bedding; that is, those that will give the greatest freedom of bloom in the summer, and which, while not as large flowered as some, are yet by no means small. It comprises a large range of colors, and owing to the free blooming habit of the varieties selected is especially desirable for bedding, producing a bright effect, even in the hot weather, so trying to the Pansy.........10c.

⅛ oz. 30c., ¼ oz. 50c., oz. $1.50.

ENGLISH PRIZE, or English Face.

219—Choicest Mixed. The peculiar characteristic of this strain is the bold face-like markings of the flowers, which, combined with their delicate texture and velvety appearance makes it a pleasing variation..........................10c.

⅛ oz. 25c., ¼ oz. 40c., oz. $1.25.

WORCESTER GIANT MIXED.

220—This mixture is made by us, from the choicest large-flowered varieties and mixtures, including the best of those here offered, and many other German and French Prize strains, which we do not consider necessary to list separately. It affords the greatest possible diversity of color, with almost innumerable shadings and markings, and like all mixtures to which we attach the name *Worcester*, is the best we know how to make..15c.

⅛ oz. $1.00, ¼ oz. $1.75.

221—**Good Quality.** Mixed. A good assortment of colors. A strain which, being grown in mixture, does not require the care in growing, or selection, of named varieties, and can therefore be sold at less price. It will give more pleasing results than might be supposed from the price at which we offer it.

⅛ oz. 20c., ¼ oz. 35c., oz. $1.00.

Phlox Drummondi

One of most popular annuals; hardy and of the easiest culture. Remarkably free flowering and brilliant and varied in coloring. It is very desirable for bedding, the brighter colors especially producing a striking effect; the red, when grown in masses, verifying the correctness of the name Phlox—signifying *flame*.

Seed may be sown in the open ground in the fall or early spring and will produce plants that will commence to bloom about the first of July, and continue in bloom until cut down by severe frosts. The dwarf varieties may be allowed to grow from four to six inches apart, but the tall varieties should stand about one foot apart, for if closer they are liable to mildew.

GRANDIFLORA.

A large-flowered strain; a great improvement on the old type both in size and form of flower.

222—**Choicest Varieties.** Mixed, all colors. ¼ oz. 25c., oz. 75c..5c.

NANA COMPACTA. (Dwarf Phlox.)

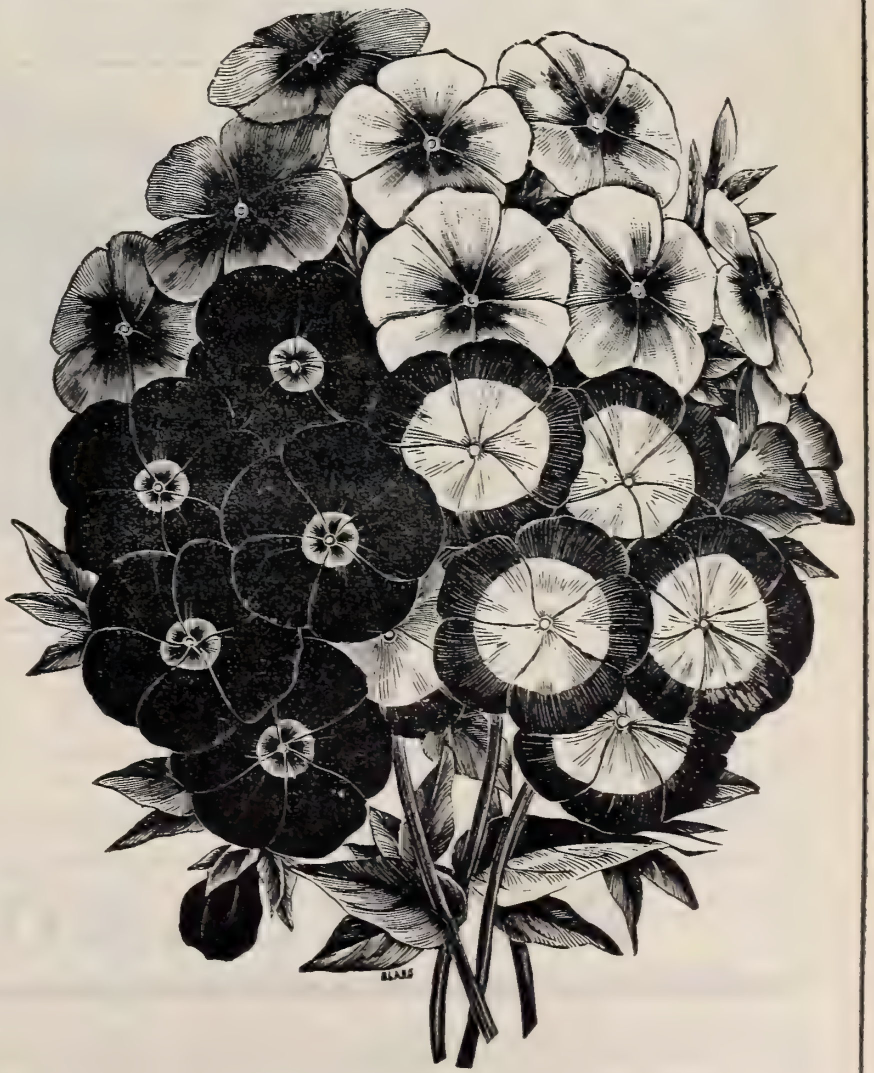
This dwarf type grows only from six to eight inches high, and is especially desirable for ribbon beds and edgings.

223—**Fireball.** Bright scarlet..........................10c.
224—**Snowball.** Pure white............................10c.
225—**Mixed Colors.** All the choice varieties. ⅛ oz. 30c., ¼ oz. 50c..10c.

Star, or Fringed Phlox. Star of Quedlinburg.

226—A distinct class, having petals partly fringed, partly toothed, instead of the entire round form of other Phloxes, and some of which being longer than others and regularly placed give the flowers a star-like appearance.

Mixed Colors. ¼ oz. 25c., oz. 90c......................10c.



PERENNIAL PHLOX.

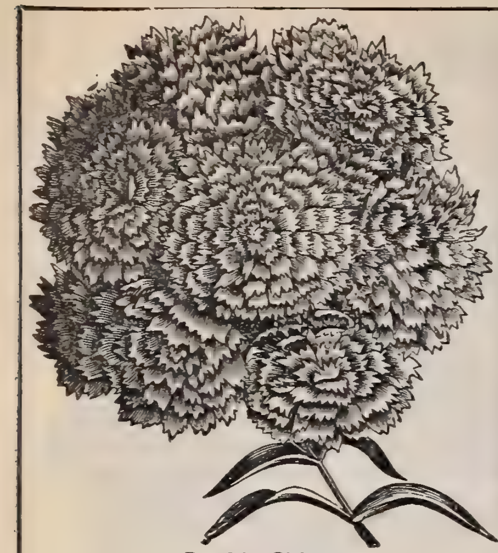
An old, well-known and very popular herbaceous plant, and growing in favor yearly. While propagation is usually accomplished by the amateur by division and by the florist with cuttings, our choice new varieties are seedlings and the field is open to all to easily increase their stock in this way, and is, to say the least, an interesting one, with but little expense.

227—**Tall Varieties.** Mixed colors. Seed saved from choicest varieties ....10c.

PINK

DIANTHUS — *See also Carnation*

THE following varieties of Dianthus, commonly known as Chinese and Japanese Pinks, have been for a long time very popular, and deservedly so. In diversity of rich and beautiful markings they have but few rivals, and in ease of culture, freedom of bloom, and almost certainty of satisfactory results, they stand close to the Nasturtium. They are all hardy biennials, blooming the first year from seed, and some in most localities will often produce larger and finer flowers the second, but, owing to the ease with which they can be grown from seed, few treat them as biennials. Seed may be sown in the open ground at any time during May. Plants should stand about six inches apart.



Double China.

228—**Double China.** (Chinensis fl. pl.) Plant compact, bearing in large clusters small, double flowers of varied colorings. Mixed colors, ½ oz. 15c., oz. 25c....................5c.

229—**Double White.** (Chinensis dalba fl. pl.) Double pure white...5c.

230—**Heddewig's Double.** (Heddewigi fl. pl.) Flowers very large and double, with finely fringed petals. A very fine strain, embracing a wide range of colors,—pink, rose, purple, maroon, white, and occasionally black and white. All colors mixed, ¼ oz. 20c., oz. 65c................................5c.

231—**Crimson Belle.**(Heddewig's.) Large single flowers, beautifully fringed; deep crimson................................5c.

232—**Eastern Queen.** (Heddewig's.) Flowers single, often two to four inches across; silvery white ground, with rich shadings and crimson center........5c.

233—**Mourning Cloak.** (Heddewig's.) Large double flowers, with deep mahogany, almost black ground, and finely fringed edge of white...............5c.

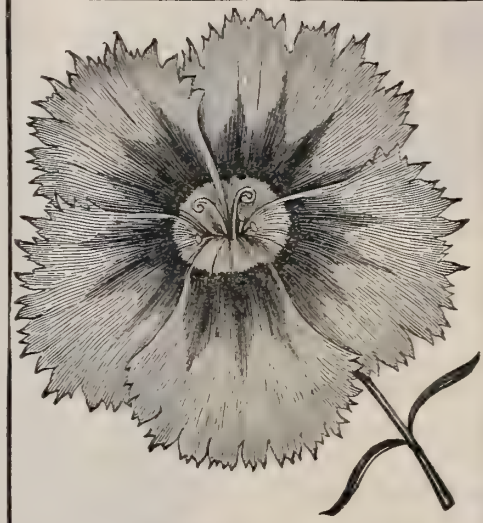
234—**Heddewig's Single Mixed.** Fine large flowers, of brilliant colors, deeply fringed or feathered.................5c.

235—**Double Diadem.** (Diadematus fl. pl.) Flowers large, double and finely marked. Beautiful and varied in color, running from crimson-purple to black purple. Choice mixed.............5c.

236—**Double Imperial.** (Imperialis fl. pl.) Bright, showy flowers, very double, finely variegated in a wide range of colors. ¼ oz. 15c., oz. 50c..........5c.

237—**Double Japan.** (Laciniatus fl. pl.) Large double fringed flowers, of peculiarly rich and varied colorings. A choice strain...5c.

238—**WORCESTER MIXED.** Our own unsurpassed mixture of above and other choice varieties. ¼ oz. 20c., oz. 60c...5c.



Heddewig's Single.

239—**DOUBLE DWARF LARGE FLOWERING HYBRIDS.** The plants of this new strain are of dwarf habit, only nine to ten inches in height when in full bloom. They bloom profusely and the flowers are of fine form and substance, of brilliant colors, and of the largest size, specimens often reaching a diameter of three inches. They embrace all colors, from white to crimson, and are mostly variegated in the striking markings peculiar to the Dianthus...10c.

PHYSALIS.

(Franchetti—Chinese Lantern Plant.)

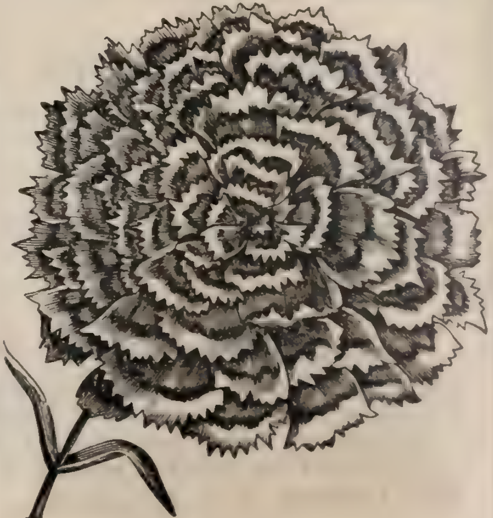
240—This has been extensively advertised under the latter name, and has also been known as the Japanese Winter Cherry. It is really a small-fruited Husk Tomato, but of little value, if any, for eating. It is, however, of merit as an ornamental plant, the large, bright-red husks, or pods, produced in the axils of the leaves making it very showy. The roots are perfectly hardy and send up numerous shoots early in the spring. These are of straggling growth but, when covered with the bright pods, the plant is very effective for either garden or house decoration. Perennial; easily attaining a fruiting size the first year..............10c.

PORTULACA

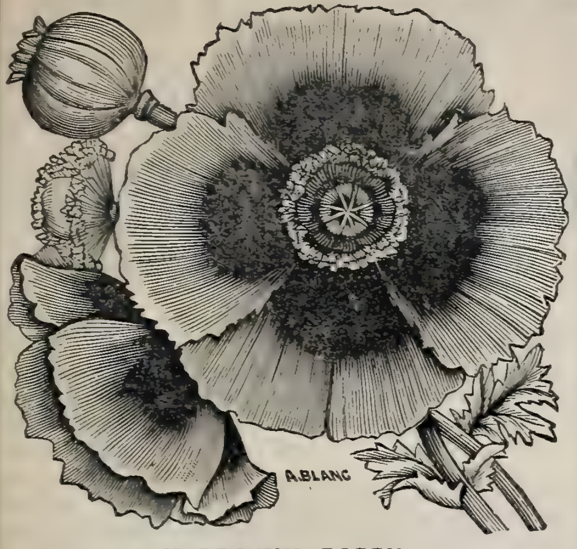
WELL-KNOWN tender annuals, blooming profusely soon after seed is sown until cut down by frost. They thrive in nearly all soils and locations, but succeed best in a light, sandy soil and sunny spot, enduring any amount of dry weather. They are of but little value for cutting, but for a dazzling display, when sown in masses, nothing equals them.

241—**Single Mixed.** ½ oz. 25c., oz. 40c..5c.

242—**Double, Choice Mixed.** Usually from fifty to sixty per cent of the flowers will come double, attaining to the highest proportion and largest size the latter part of the summer. ⅛ oz. 40c., ¼ oz. 65c......................................10c.



Double Japan.

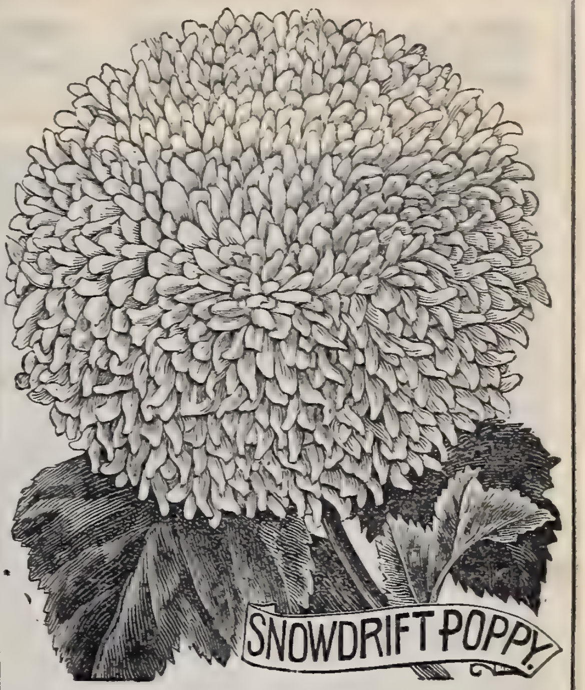


UMBROSUM POPPY.

POPPY

> But pleasures are like Poppies spread;
> You seize the flower, its bloom is shed.
> —BURNS.

This well-known plant is of the easiest culture, only requiring to be sown where designed to remain as it is very difficult to transplant. Although not generally adapted for cutting, some of the recent additions have flowers of more lasting quality than the older type, of which the poet writes.



SNOWDRIFT POPPY.

243—**Umbrosum**. Scarlet, with black spot on each petal. A very showy variety, of dwarf habit..........5c.

244—**Snowdrift.** Large, pure white flower, very double and finely fringed. A grand variety..........5c.

245—**Cardinal.** Large, double flower, bright cardinal red; as finely fringed as the Snowdrift. A worthy companion for that beautiful variety..........5c.

246—**Tulip-Flowered.** Splendid large flower, borne well above the foliage, cup-shaped, bright scarlet, sometimes having a black spot at base of each petal. Very beautiful, and when grown in mass resemble a bed of scarlet Tulips. 1¼ ft. ....5c.

247—**Shirley.** Flowers large, generally single or semi-double. Of a wide range of color, running from blush-white through shades of pink-rose and carmine to deep crimson, occasionally blotched or streaked with white. A very graceful and elegant variety, especially fine for cutting..........5c.

248—**Double Carnation-Flowered, Mixed.** An old but desirable strain, embracing many distinct shadings and colors. Flowers very large and double, with beautifully fringed petals..........5c.

249—**Danebrog.** A single-flowered variety; bright scarlet with white spot at base of each petal. Very showy and distinct. 5c.

250—**Scarlet Single.** Flowers very large, often four inches in diameter..........5c.

PERENNIAL VARIETIES.

ICELAND POPPIES.

These bloom the first year from seed. Large satiny flowers, borne on long stems; somewhat fragrant; excellent for cutting, remaining in good condition several days if cut when first open. The plant is perfectly hardy and blooms from June to October.

251—**White, Yellow and Orange, mixed**..........5c.

ORIENTAL POPPIES.

These are also perfectly hardy and may be used to advantage in the perennial border. Seed may be sown in the open ground late in fall or early in the spring. They bloom early the second spring from sowing. All are single-flowered and of some shade of red, the following variety being much the best of the class.

252—**Orientale.** Flowers of immense size, six inches in diameter, bright scarlet. 3 ft..........10c.

ROCKET. (Hesperis Matronalis.)

> In rival pomp, see either Rocket blow,
> Bright as the sun, or as the new fallen snow. —EVANS.

Hardy perennial plant of easy culture, bearing clusters of purple or white fragrant flowers. The fragrance is much more powerful in the evening. 1½ ft.

253—**Mixed**..........5c.

RICINUS. (See Castor Bean.)

RHODANTHE. One of the finest everlasting flowers and an excellent plant for garden decoration. If flowers are gathered before they are fully expanded and dried in the shade, they will retain their color for years. Tender annual. 1 ft.

254—**Mixed Colors.** Various shades of pink, rose, crimson and white..........5c.

SALVIA. (Flowering Sage.) Well-known perennials, blooming the first year from seed sown early in heat. They grow well in any light, rich soil, and will bloom until after frost. The Splendens (Scarlet) is one of our best and most effective plants for lawn decoration.

255—**Splendens.** The well-known variety; bright scarlet. 10c.

SCABIOSA, or Sweet Scabious. Mourning Bride.

> The Scabious blooms in sad array,
> A mourner in her spring. —Flora's Interpreter.

A popular hardy annual, blooming freely in cool locations or during the late summer and fall. The flowers of the Tall varieties are borne on slender but stiff stems and are excellent for cutting. The foliage is of compact, rounded form, about ten inches in height. The Dwarf varieties are similar in form but only one-half the height.

256—**Dwarf Double.** Mixed, all colors. Includes the new varieties..........5c.

257—**New Tall Large-Flowering Double.** Mixed. Large double flowers in a remarkably wide range of colorings, shading from white to pink, crimson to deep red, and from lilac to deep black..........5c.

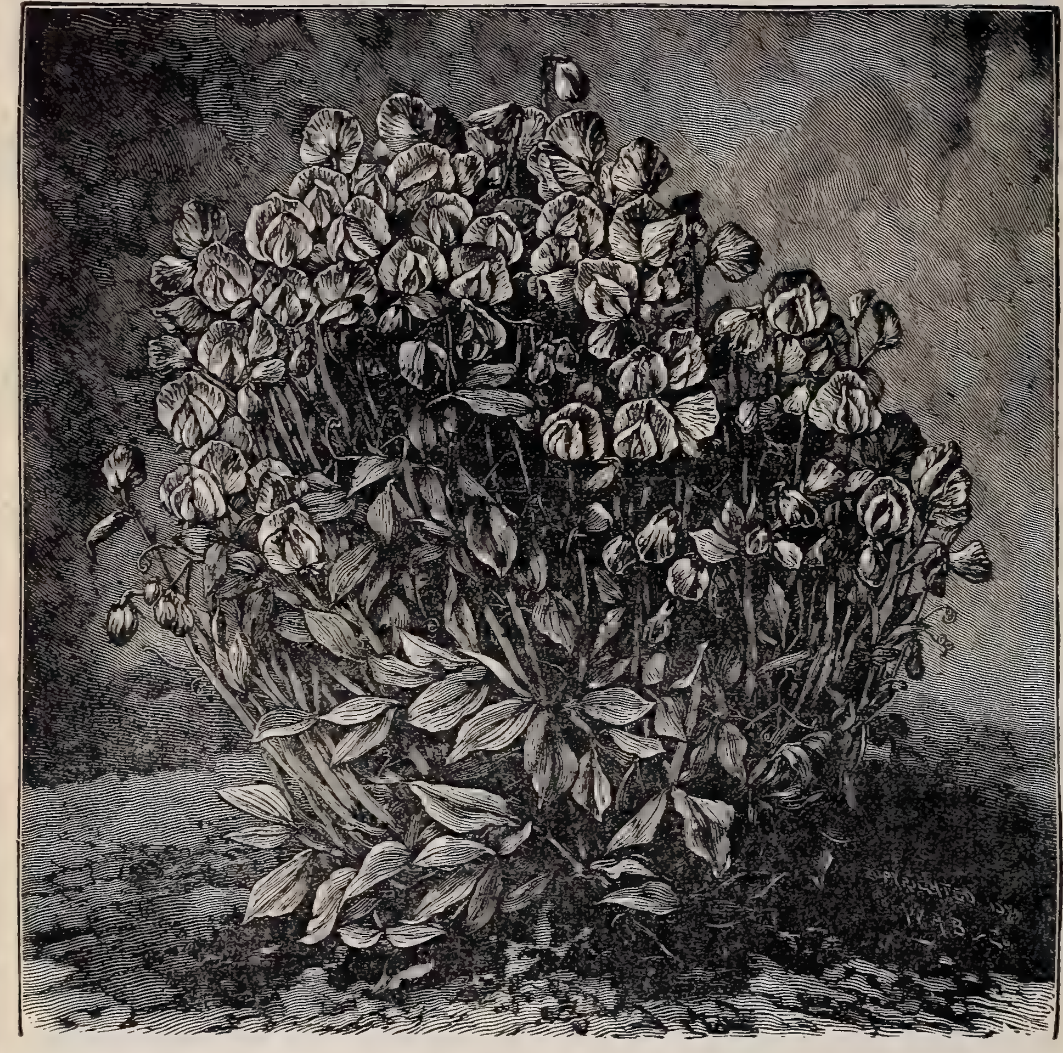
SENSITIVE PLANT. (Mimosa Pudica.)

> Weak with nice sense the chaste Mimosa stands,
> And from each touch withdraws her timid hands. —DARWIN.

Very curious and interesting plant, the leaves closing if touched or shaken. Half-hardy annual.

258—**Sensitive Plant.** Pinkish white; 1¼ ft..........5c.

SWEET PEAS. ✱ NOVELTIES.



BURPEE'S Bush Sweet Pea.

The First of an Entirely New and Distinct Race.

The introducers say of this:

"Burpee's Bush Sweet Pea grows in perfect bush form, as shown in the illustration. It requires no trellis like the tall Sweet Peas; neither does it hug the ground, Verbena-like, as does the Cupid race. An average bush grows from 16 to 18 inches high, by from 12 to 14 inches wide. One of the largest plants measured was 17 inches high, and branched so vigorously that it measured 24 inches across! All the flowers are borne on top of the plant, and the proper way to treat this new type will be to plant the seed in a row, to make a neat, even hedge, when no supports whatever will be required. Grown as separate, individual plants, the slight support of a light stick should be furnished,—just such as would be required for a dwarf, bushy Marguerite carnation. We predict that this 'fore-runner of a new race' will beget increased enthusiasm in Sweet Peas—America's favorite flower.

In addition to the Gray Friar we now offer two other, varieties of this class, both of which have been popular in the Tall Sweet Peas.

Bush Gray Friar. As is well-known, the Gray Friar is one of the best of the Tall varieties; and in this bush form we have a perfect reproduction both in coloring and form. Pkt. 5c., oz. 10c.

Bush Blanche Ferry. The plant is of true bush form and he flowers identical with the Tall Blanche Ferry which is probably the most popular variety in cultivation. Pkt. 10c., ½ oz. 25c.

Bush Monarch. This also is like the tall sort of this name. Flowers large, borne, generally, three in a cluster. Pkt. 5c., oz. 15c.

NEW SWEET PEA.=Earliest of All.

We quote from introducers' description:

"Notwithstanding their dwarf habit and neat, slender foliage, the plants are of vigorous growth and come into bloom always ten days to two weeks in advance of the Extra Early Blanche Ferry, which has been heretofore a week ahead of all other varieties. Growing only two feet in height, the plants do not require the support of brush or trellis."

"The flowers are as large as those of the regular strains of Blanche Ferry, and have long, stout stems, making them entirely satisfactory for cutting; they are borne in close clusters of three, all facing one way. The standards are a bright, rich pink, while the wings are nearly pure white."

Pkt., 5c.; ½ oz., 10c.; oz., 15c.

NEW SWEET PEA. "NAVY BLUE."

THE ONLY SWEET PEA THAT IS OF A TRUE BLUE COLOR.

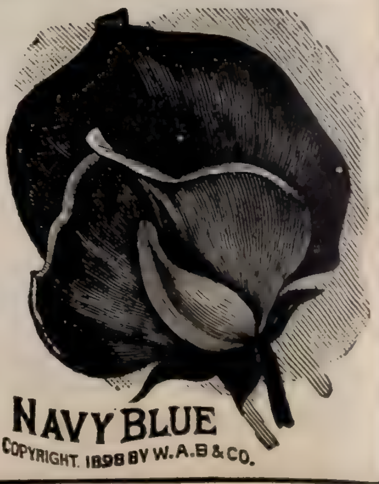
An entirely distinct color (not tint) from any existing variety of Sweet Pea. General color-effect dark blue standards brilliant royal purple; wings pure violet; the whole flower elegantly veined in sharp relief. A most vigorous grower. Blooms of approved form, generous size, parchment-like texture, and remarkable substance. Stems usually bear three flowers, occasionally four. When they begin to fade, they assume an antique silver-gray cast, but maintain a stately mien up to the moment the petals fall.

A VALUABLE COLOR INOVATION. The introducers say·

Burpee's NAVY BLUE" is an entirely new color of unique value. From personal inspection of the growing crops in California, in 1897, 1898, and 1899, as well as from our own trials at Fordhook the past season, we can indorse thoroughly the originator's description as given above.

The color-effect is True Blue. Of all the one hundred and fifty varieties of Sweeet Peas there is no other that approaches this color.

Pkt., 10c.; ½ oz., 15c.; oz., 20c.



Remember that we Include Ounces as well as Packets in OUR SPECIAL OFFER. SEE PAGE 25.

A New Class of Sweet Peas. The Cupid or Dwarf.

When the WHITE CUPID was introduced many became at once greatly interested in it, but owing to its failure to germinate well or at all in many cases, after repeated trials, the public became discouraged and interest waned. With the advent of the PINK CUPID (a black seeded variety) however, the interest in this class was revived, it being comparatively easy to germinate and was successfully grown by many who were not successful with the White Cupid. Since the Pink variety was introduced there have been other additions to this class, with which the average cultivator has been fairly successful. These were obtained by crossing and re-crossing the original White Cupid upon the different tall Sweet Peas, producing a number of colors, so that it is only a question of comparatively few years until we have all varieties in Cupids.

We offer these varieties, and in addition Three New Ones,

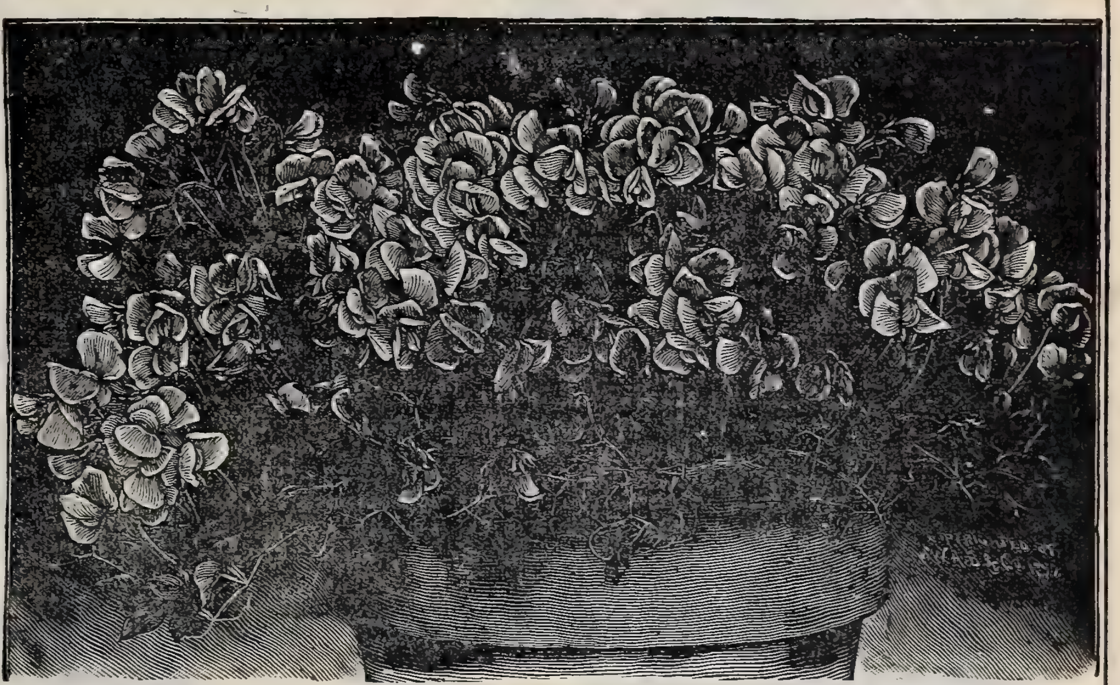
White Cupid (white seed), the first variety introduced of this class.

Pink Cupid (black seed), introduced in 1898. A departure from the tall Blanche Ferry. Standard a bright rose-pink; wings pure white.

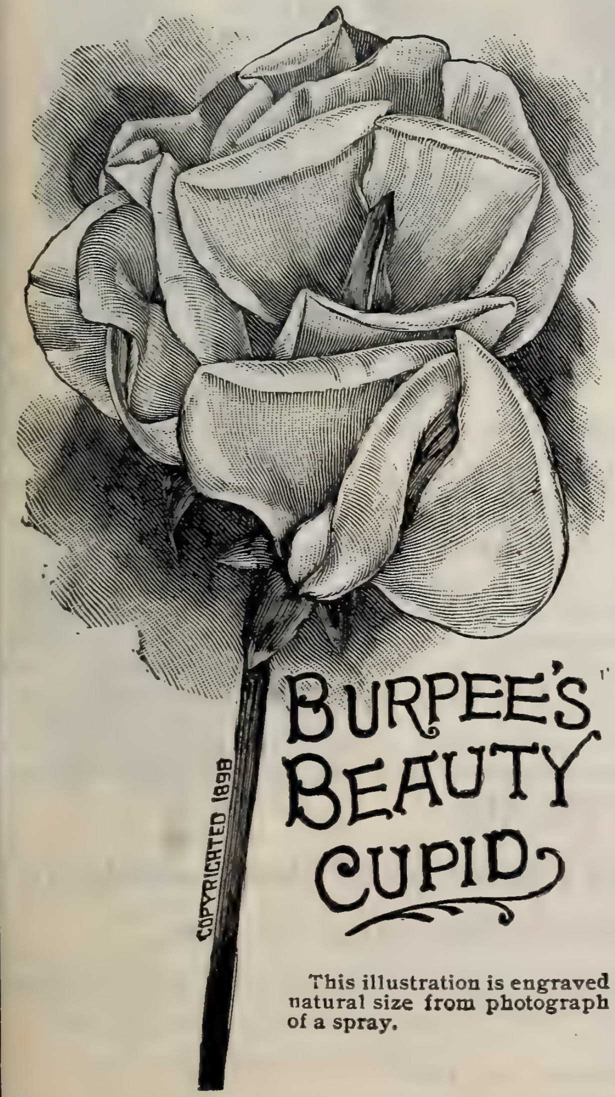
Alice Eckford Cupid (black seed). Flower identical in size, form and color with the tall Alice Eckford, which, while not of the largest size, is a favorite on account of its delicate shadings. Standard rich creamy white, suffused with soft flesh pink; wings silvery white with a faint pink blush in centre.

Burpee's Beauty Cupid. Flower equal in size, form and substance to the best of the new tall Sweet Peas. Standard a delicate though decided pink, lightening to nearly white at the edges; wings suffused with rosy carmine, deepening at the edges. A vigorous grower and a wonderfully free and profuse bloomer.

Primrose Cupid. Like all the other Cupids, a free bloomer. Identical with White Cupid in all respects except coloring, this being of a rich creamy tint like the tall Primrose. The seed we offer is all hand-picked and although white will grow nearly as vigorously as the black, seeded varieties.



A Single Plant of Cupid Sweet Peas Exactly Engraved from a Photograph.



This illustration is engraved natural size from photograph of a spray.

THREE CUPIDS.

We quote the introducers' descriptions:

BOREATTON CUPID.

"Flower of good size, fine bold form, and rich dark coloring. Standard quite broad and well spread, of smoothly rounded form, edges slightly reflexed or curving backward; self-colored in a rich wine-brown, with heavy veinings of a still darker shade. It is of beautiful texture and smooth, glossy, satin surface. Wings lie rather closely to the semi-erect keel, spreading in the lower portion, with edges heavily rolled; deep mauve, underlaid and suffused with rosy purple. Keel heavily striped with rich purple. Plants always of true Cupid growth, dense and spreading, with rich, deep-green foliage."

COUNTESS OF RADNOR CUPID.

"Of true Cupid type, the plants hug the ground, verbena-like, completely covering a space sixteen by twenty-four inches in diameter, and never growing more than six to eight inches high. From this mat of deep-green foliage are thrown up hundreds of stems of dainty flowers of perfect form and largest size. The flowers are of immense size, larger than the tall Countess of Radnor, and are borne three and four on a stem. Standard very large, broadly expanded, and of a delicate lavender, suffused in the centre with soft rose. Wings unusually broad, widely spread, and not recurved; of a clear, light-lavender shade throughout. A charming companion to the dark beauty of Boreatton Cupid, and contrasting splendidly with the intense brilliancy of Firefly Cupid."

FIREFLY CUPID.

"Like the others, this is, of course, of true Cupid growth, dense and spreading. Flowers of good size and deep, rich shading Standard quite large, broad and erect, widely spread; of pointed form when fully opened, and of a deep, glowing scarlet. Wings large and curling close to the keel, only moderately spreading, and of a deep, rich rose. The large flowers, borne in clusters of three, have the same dazzling scarlet effect as the tall Firefly, and appear even more brilliant in the striking contrast to the deep emerald-green foliage. The plants are literally covered with bloom, and, either in a bed in the open garden or as pot-plants, are almost startling in gorgeous beauty! Every one who has seen the Firefly Cupid, in advance of its introduction, is wildly enthusiastic. It is really impossible in any description to give an adequate idea of the brilliancy and beauty of these little plants, so completely covered with intensely brilliant bloom."

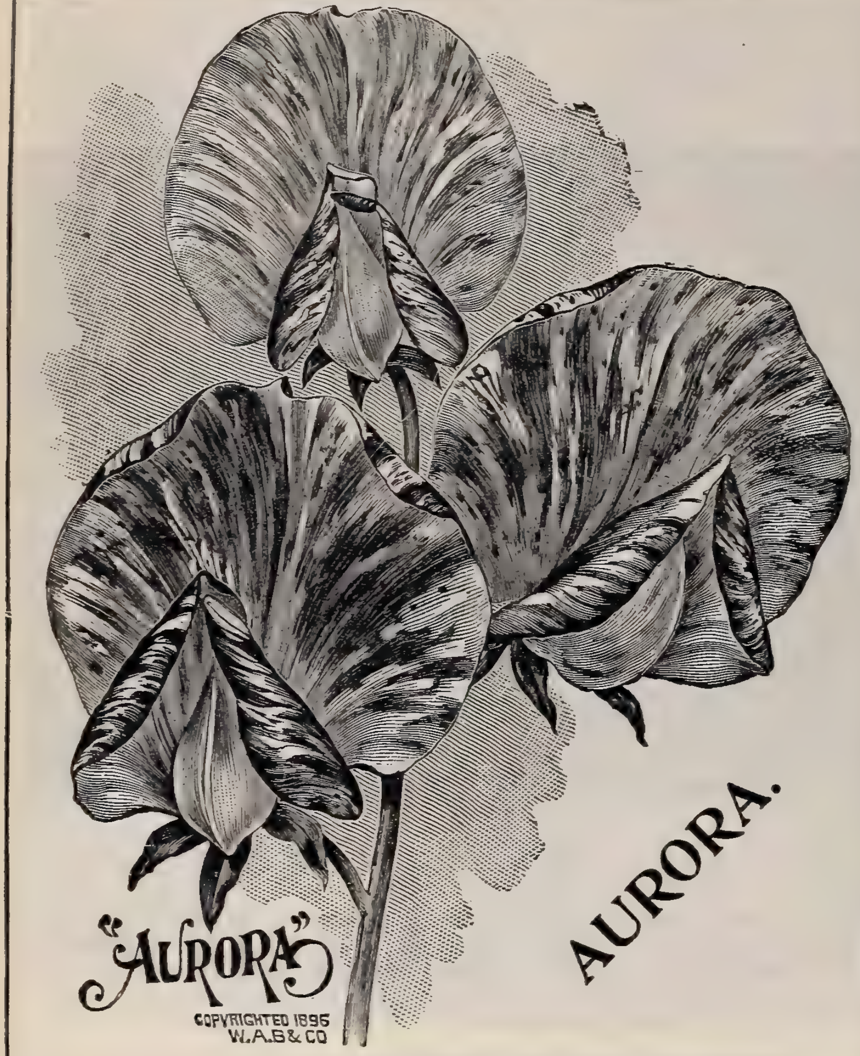
EACH OF ABOVE EIGHT VARIETIES, Pkt. 5c., Oz. 10c., 1-4 lb. 30c.

CUPIDS IN MIXTURE.

This mixture contains all of the above and several other named varieties, and a large number which have not yet been separately introduced, about *fifty varieties in all*, comprising *nearly all the shades* in the *Tall Sweet Peas.* Pkt. 10c., oz. 15c., ¼ lb. 40c.

Two Giant Flowered Sweet Peas.

Not New, but well worthy of Special Mention.



It is impossible to over-praise the striking beauty of this gigantic flowered new Sweet Pea. The flowers are of fine substance, full expanded form (as shown in the illustration), and are truly gigantic in size. The immense flowers are borne three and four on a stem; the stems are extra long and strong, The vines are vigorous in growth and bloom most profusely. The color effect is gorgeous; both standard and wings are flaked and striped on a white ground, with bright orange-salmon.

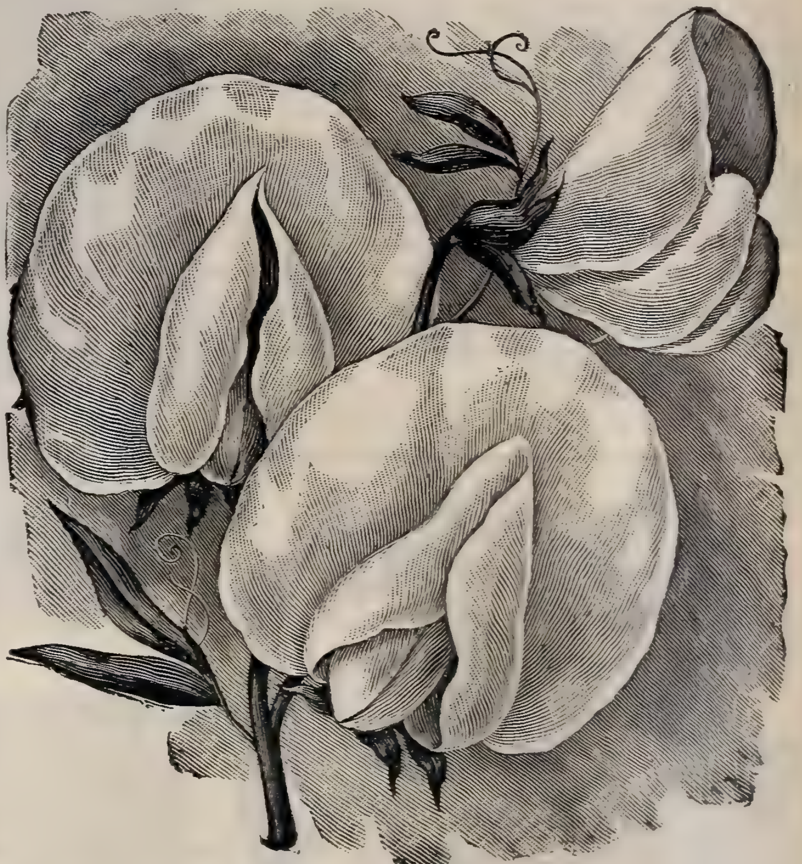
Pkt., 5c.; oz., 10c.; 2 ozs., 15c.; ¼ lb., 25c.

"BLANCHE BURPEE"

Eckford's Giant White Sweet Pea.

A white seeded, pure white of exquisite form and immense size, having a bold, rigid, upright, shell-shaped standard of great substance; is a wonderfully profuse bloomer and absolutely free from the objectionable notch so conspicuous in Queen of England. It usually bears three flowers on a stem; a very chaste variety, and by far the finest White Sweet Pea ever produced.

Pkt., 5c.; oz., 10c.; 2 ozs., 15c.; ¼ lb., 25c.



MIXED SWEET PEAS.

OUR CHOICE MIXTURE.

This Choice Mixture is made by us, and contains about sixty NAMED varieties, including both old and new, mixed in right proportions of color, and with the exception of some of the latest highest priced varieties, contains all that is desirable for a choice mixture.

Pkt. 5c., oz. 10c., 2 ozs. 15c., ¼ lb. 25c., lb. 65c.

OUR BEST MIXTURE.

This mixture is made of the large flowering varieties and those of recent introduction. Particular attention is given to the right proportion of colors as well as to the size of the flower. It would be impossible to make a better one with the varieties in cultivation at present, and it will be found on trial to be exactly what we claim—"The Best."

Pkt. 5c., oz. 15c., 2 ozs. 25c., ¼ lb. 35c., lb. $1.00.

COLLECTIONS OF SWEET PEAS.

Our Special Collection 25c. Consisting of 10 Named Varieties of Our Selection.

OUR FAVORITE COLLECTION, 35c.

Consists of the following popular varieties: Aurora, Blanche Burpee, Extra Early Blanche Ferry, New Countess, Firefly, Golden Gleam, Her Majesty, Lovely, Maid of Honor, Royal Rose, Stanley, and Venus, with one pkt. of Pink Cupid—13 pkts. in all. Worth at catalogue rate, 65c. By mail, postpaid, 35c.

OUR WORCESTER COLLECTION, 75c.

Consists of the first variety of each class in general list and Pink Cupid, 30 pkts. in all, and one ounce of our Best Mixed.

Worth at catalogue rates, $1.65. By mail, postpaid, 75c.

When Ordering Seeds in Packets or Ounces, remember we make a Liberal Discount. See Special Offer

SWEET PEAS.

GENERAL LIST.

There have been recently so many additions to our already large list of varieties, many of them much superior in size, shape, and coloring to somewhat similar old ones, making a complete list unwieldly to follow, that we have aimed in the following list to discard the useless varieties and those of little merit, and to retain only those which in the opinion of experts, are the best, making, however, a slight deviation from this rule in the retention of a few well-known varieties of lesser merit because of their great popularity (probably owing to a want of knowledge of superior similar ones), and have as far as possible placed first in the different classes the variety which, all features considered, is the superior one, the next in merit following, and so on. This rule, however, is only true in a general way, as it often occurs that two have each special merit, making it difficult to decide which should have the precedence. This list contains many of the late introductions and all needful varieties to make a complete list of colors and the many various shades and tints which are found in these beautiful flowers. We are in a great measure indebted to that excellent work, the SWEET PEA REVIEW, published in California by practical growers, for its suggestions as to the arrangement of varieties in color classes, having followed them to a considerable extent, not only regarding color, but also in regard to the retention and discarding of varieties.

All varieties 5c. per pkt., 10c. per oz., 2 ozs. 15c. and 25c per ¼ lb.

White.

1 Blanche Burpee
2 Emily Henderson
3 Mrs. Sankey

Yellow.

4 Golden Gleam
5 Mrs. Eckford
6 Primrose

Pink.

7 Prima Donna
8 Lovely
9 Blushing Beauty
10 Katherine Tracy
11 Mrs. Gladstone

Rose.

12 Lady Penzance
13 Ovid
14 Her Majesty

Scarlet.

15 Brilliant
16 Firefly
17 Cardinal

Crimson.

18 Mars

Between Scarlet and Crimson.

19 Prince Edward of York
20 Princess Victoria

Approaching Blue.

21 Captain of the Blues

Mauve-Bluish.

22 Celestial
23 New Countess
24 Countess of Radnor

Mauve-Reddish.

25 Emily Eckford
26 Dorothy Tennant

Magenta.

27 Captivation

Claret.

28 Duke of Clarence

Deep Maroon and other closely allied tints.

29 Shahzada
30 Stanley
31 Boreatton
32 Indigo King

BLENDINGS.

DELICATE.

33 Crown Jewel
34 Coquette
35 Venus
36 Lemon Queen
37 Peach Blossom
38 Alice Eckford

STANDARD AND WINGS OF SLIGHTLY DIFFERENT TINTS.

39 Lady Beaconsfield
40 Triumph
41 Countess of Shrewsbury

FLAKED AND CLOUDED EFFECT.

42 Royal Rose
43 Apple Blossom

RICH METALLIC.

44 Countess of Powis
45 Meteor
46 Rising Sun
47 Orange Prince

SUFFUSED WITH AND EDGED WITH LAVENDER.

48 Lottie Eckford
49 Maid of Honor
50 Golden Gate
51 Butterfly

WITH ROSE.

52 Countess of Aberdeen

TRICOLOR.

53 Captain Clark

Contrasting Shades—Standards and wings in different tints.

54 Little Dorrit
55 Extra Early Blanche Ferry
56 Duke of York

VARIEGATED.

ORANGE-ROSE.

57 Aurora

ROSE.

58 Mrs. Jos. Chamberlin
59 Gaiety

PINK.

60 Ramona

BLUISH-MAUVE.

61 Striped Celestial
62 Juanita

SPECKLED EFFECT.

63 Gray Friar

CHOCOLATE AND PURPLISH MAUVE.

64 Senator

SCARLET AND CRIMSON.

65 America
66 Daybreak

Dwarf.

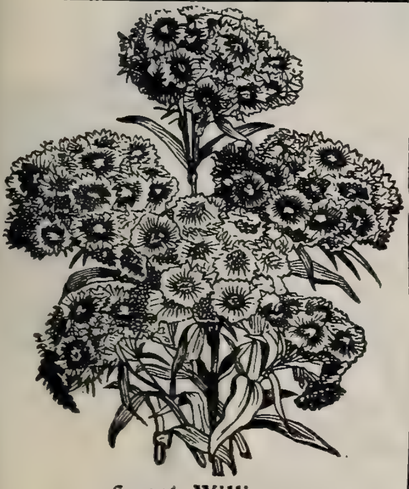
67 Cupid, white
68 Pink Cupid

EVERLASTING OR PERENNIAL SWEET PEA.

(Lathryus Latifolius.)

This is very hardy, having long roots which penetrate the soil to a great depth. It is slow in starting, does not produce many flowers the second year, but, when fully established, blooms profusely and is one of the most satisfactory perennials. The flowers are borne in clusters on stout stems, only lacking fragrance to make them more popular; but they are, nevertheless, especially valuable for cutting, and the plant should be more generally cultivated. The colors are white, purple and red.

261—**Mixed Colors**........5c.



Sweet William.

SWEET WILLIAM.

(Dianthus Barbatus.)

I like this flower, *Sweet William*, on its leaf
The smile the giver wore I see;
And though that smile, so sweet, was passing brief,
This simple flower can fix its memory.

This well-known, free flowering perennial is very desirable for an effective display in the border, is of the easiest culture and should be more generally cultivated. Seed may be sown at any time from early spring to the middle of August and will make fine blooming plants for the following spring.

262—**Choice Single, Mixed**..............................5c.
263—**Choice Double, Mixed**..............................5c.

SWEET SULTAN. (Cetaurea Moschata.)

An annual of easy culture, bearing fragrant flowers; white purple, etc.

264—**Mixed**...5c.

STOCK.

One of our most popular and easily grown annuals, only needing a good, rich soil, good seed and ordinary culture to furnish a profusion of beautiful and fragrant flowers. The seed now offered is a great improvement over the old strains of Gilliflowers, and will produce as large a proportion of double flowers as plants of the named sorts grown from cuttings.

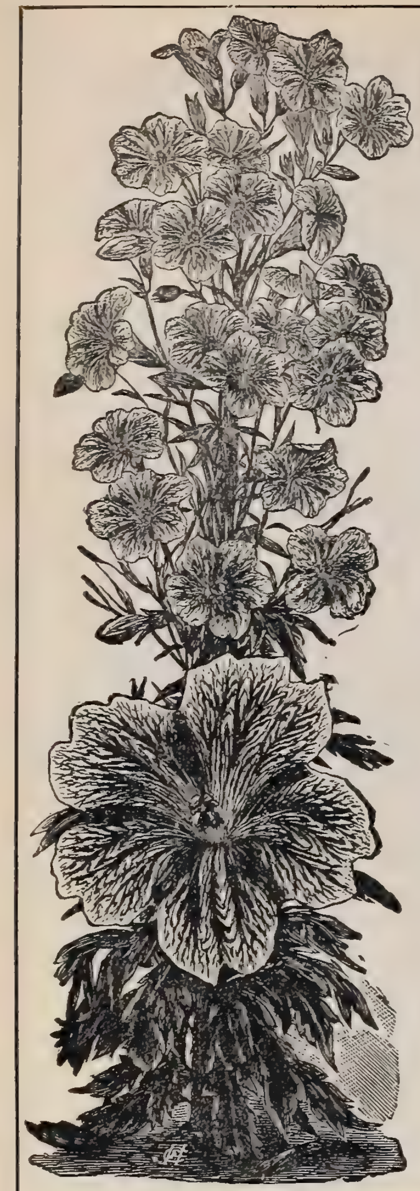
265—**Largest Flowering Globe Pyramidal, Mixed.** This new strain produces flowers of the largest size, and perfectly double individual blooms are often over two inches in diameter. ⅛ oz. 75c...10c.

266—**Large-Flowering Dwarf—Ten Weeks.** An improved strain of the German Ten Weeks. Flowers very large and double. Plant of dwarf habit, blooms profusely, and is excellent for bedding. Mixed colors. ⅛ oz. 40c., ¼ oz. 75c..10c.

267—**Double German Ten Weeks.** Fine mixed. ⅛ oz. 25c., ¼ oz. 40c., oz. $1.50.... ....5c.

268—**Giant Perfection.** One of the finest large-flowered varieties, with large spikes of double flowers. Plant of vigorous habit, growing about two and one-half feet in height. Mixed colors..10c.

269—**Cut-and-Come-Again.** (Princess Alice.) Plant of branching habit, producing from spring to fall a profusion of pure white double flowers. ⅛ oz. 75c..................10c.



Lower Flower 1-2 Actual Size.
EMPEROR SALPIGLOSSIS.

SALPIGLOSSIS - VELVET FLOWER.

A lovely class of half-hardy annuals which should be more generally cultivated. Flowers funnel-shaped, of beautiful and varied colors, exquisitely marbled and veined; in bloom from August to October. 1½ to 2 ft.

270—**Choice Mixed** .... 5c.

271—**NEW EMPEROR.** This forms only one leading stem, which often grows as thick as one's finger and bears on its end a bouquet of the most beautiful flowers. These are richly veined with gold and much larger than those of the old type. There is as much difference between the "Emperor" variety and the old type as between the improved varieties of Petunias and the common. The throat is wide open and short, and the edge of the flower is not so deeply incurved as with the old type. Mixed colors..10c.

VERBENA.

A well-known favorite flower, which should be more generally grown from seed. If sown in the open ground in May it will bloom in August, and, of course, somewhat earlier if sown in the house in March. Half-hardy perennial trailer. 1 ft.

272—**MAMMOTH, Mixed.** Not only are the trusses of extra size, but the individual florets as well are much larger than in any of the old varieties, often greater in diameter than a silver quarter. It embraces all the colors with the markings peculiar to the Verbena. ¼ oz. 40c., oz. $1.50......10c.

273—**SCARLET DEFIANCE.** Large trusses; bright glowing scarlet ....10c.

274—**MAMMOTH WHITE.** Both truss and florets are of the largest size. Flowers are of good substance and of delightful fragrance..........10c.

275—**ITALIAN STRIPED.** The trusses of this are large, but florets are smaller than are those of preceding varieties. Each floret is distinctly striped in bright colorings embracing a wide range of shades ....10c.

276—**FINE MIXED.** All colors. ¼ oz. 25c., oz. 75c..5c.

277—**HYBRIDA COMPACTA.** Mixed. A distinct strain, of dwarf habit. The plant forms a compact bush about five inches in height and blooms profusely throughout the season. Trusses large; colors white, scarlet and violet.........10c.

WALL FLOWER.

The flowers of the Wall Flower are deliciously fragrant and greatly prized. The large, massive, conspicuous spikes of the Double German varieties have a charming effect, while the more bushy, compact growth and profuse blooming single ones render them exceedingly attractive. Tender perennials. 1½ ft.

278—**SINGLE, Fine Mixed**..................5c.

279—**DOUBLE, Choice Mixed** ....10c.

WILD CUCUMBER. Echinocystis Lobata.

280—A very rapid growing annual climber, reaching a height of 20 feet. Seeds germinate more freely if soaked a few hours in warm water before sowing................................5c.

WILD FLOWER GARDEN MIXTURE.

281—This mixture is made from a large number of the best free-flowering annuals, and will be found very useful to sow in various places where there is quite an area to be filled up without much expense or labor. If properly cared for and weeds are kept out, this mixture will furnish flowers continually through the season. oz. 25c., ¼ lb. 75c..5c.

ZINNIA. Youth and Old Age.

The Zinnia has always been a popular plant on account of its freedom of bloom, bright, showy flowers, and the ease with which it could be grown. Although not a graceful plant, it is, when grown in masses or as the background to other lower-growing plants, striking and effective. Hardy annual. 1 to 3 ft.

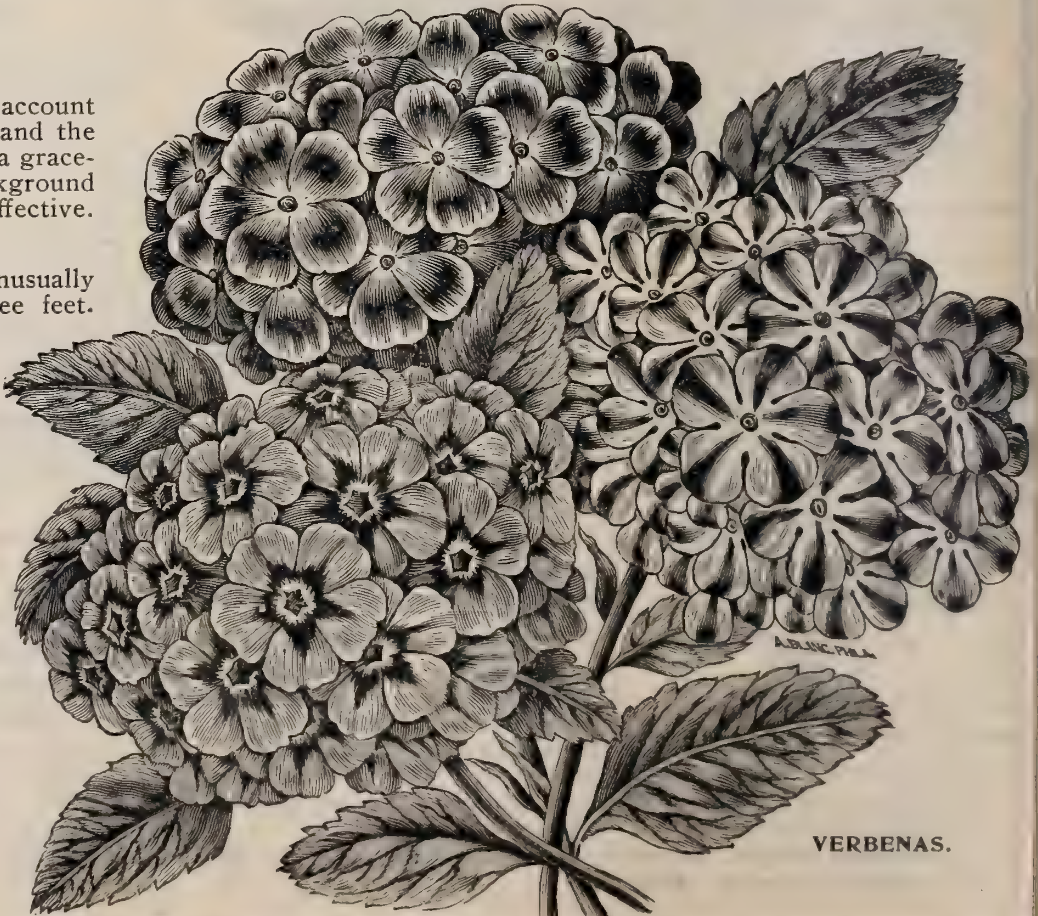
282—**MAMMOTH, Mixed.** This plant is of unusually vigorous growth, often reaching a height of three feet. The very double flowers are of immense size, about four inches in diameter, and of rich and varied color. ¼ oz. 25c., oz. 75c.............10c.

283—**CHOICE MIXED.** Not equal in size of flower to the Mammoth, but, nevertheless, a fine strain of double flowers with many brilliant colors. ....5c.

284—**STRIPED, or Zebra.** The flowers of this are striped or mottled with contrasting colors. ....10c.

285—**LILLIPUT, Mixed.** Plant grows about one foot high and bears in profusion small, very double and globular flowers about one inch in diameter of very brilliant colors................10c.

286—**HAAGEANA.** Plant of distinct growth, more slender than others, flowers a little over an inch in diameter, semi-double and single. Color deep orange. The plant is of very free-flowering habit, and the flowers are excellent for cutting. ....10c.


A.BLANC.PHILA.

VERBENAS.

BULBS AND TUBERS For Spring Planting.

To no class of plants can the term *interesting* be more truthfully applied than to bulbs and tubers. The following list contains only those which are easily within the scope of the amateur, and of some it may be said that in a production of magnificently beautiful flowers with comparatively little care, they are unequaled.

BEGONIAS. Tuberous Rooted.

These are among our finest bedding plants. They, however, seem yet to be appreciated but by only a portion of those who cultivate flowers. For some unknown reason the idea seems prevalent that their cultivation is difficult. We do not so consider it. They require a well enriched soil, a location partially shaded, and protection from severe winds. The soil should be moist but never soggy. Given these conditions, their culture is simple and easy. For best results, tubers should be started early in the house and then be planted out only when danger of frost is past. They will come into flowers very soon and bloom profusely and continuously until frost. The tubers can then be taken up and stored in dry sand in a moderately warm place.

The flowers are marvels of beauty—delicate yet brilliant, of beautiful form and very large, often measuring, when conditions are favorable, over four inches in diameter. In color they are extremely varied, ranging from pure white through many shades of pink and rose to scarlet and deep crimson, and from pale yellow to deep orange. The foliage is remarkably clean and healthy, varying in form, deep green, presenting a very pleasing contrast with the bright flowers.

Single Varieties. White, Pink or Rose, Red and Yellow. Each, 10c. Doz. $1.00. Postpaid.

Double Varieties. Same colors. Each, 15c.; 3 for 40c. Doz. $1.50. Postpaid.

CALADIUM ESCULENTUM. Elephant's Ears.

A very large-leaved tropical plant of rapid growth. In warm, rich, moist soil a single bulb will send up from three to ten stalks four to five feet in height, each having a leaf three to four feet long and nearly as wide. Very ornamental, planted either singly or in groups.

Extra Large Bulbs. Each, 20c.; 3 for 50c. Postpaid.
Second Size Bulbs. Each, 15c.; 3 for 40c. Postpaid.

Per Dozen, by Express. { Extra Large, $1.50.
Second Size, $1.25.

CANNAS.

For peculiarly beautiful flowers, with rich, brilliant and diverse colors and stately foliage, no plant exceeds the Canna. Planted in masses on the lawn, no other plant is its equal in striking decorative appearance, and it is at present probably the most popular of all bedding plants, even exceeding in popularity the old-time favorite, the Geranium; a thing of interest from the time the first leaves begin to unfold, and blooming continuously until cut down by frost. It is also an exceptionally fine pot plant either for summer or winter blooming; if desired for the latter purpose it can be grown in the garden or bed, and before danger of frost can be lifted and potted with but a little check to the plant, and will continue to grow and bloom through the winter.

We offer a choice selection of the best varieties; strong, dormant roots, with two or three eyes. (Late in the season we are sometimes obliged to send growing plants.)

Four Distinct and Valuable Varieties. Each, 20c., 3 for 50c.; dozen, $1.75. Postpaid.

PRESIDENT McKINLEY. One of the best of recent introductions. Color a rich, clear crimson; flower of good size; borne in large, even trusses well above the foliage; one of the earliest to bloom. The plant is dwarf in habit, never growing over 3 ft. high in rich soil; compact and shapely; foliage rich green with margin of chocolate.

ALSACE. The nearest approach to white. When first opening, flowers are of a delicate sulphur-yellow, changing soon to a creamy white. A very desirable variety for contrasting with darker sorts.

PRESIDENT CLEVELAND. The finest orange-scarlet yet introduced. Flowers large, and produced in compact, well-formed trusses with broad, thick petals, making a lasting and well-shaped flower. A strong, vigorous grower, and continually in bloom from early summer until frost. Very popular.

AMERICA. A giant orchid flowered variety; the first red leaved Canna in the giant flowered class. Foliage rich glossy bronze, appearing almost as if varnished. Flower deep orange, flamed and striped with deeper shades. A very distinct and valuable variety.

20 of the Best Varieties in Cultivation. Each 10c., 3 for 25c.; dozen, $1.00. Postpaid.

A. BOUVIER. Flower on first opening intense brilliant crimson, changing to a deeper hue when fully expanded.

ANTOINE CROZY. Flower deep crimson; foliage light green; 4 feet.

AUSTRIA. An orchid flowered variety; golden-yellow with faint scarlet markings. A remarkably strong grower and free bloomer; 6 feet.

BURBANK. Flower rich canary-yellow, the inner part of petals dotted with fine crimson spots; gigantic in size and orchid like in form. A very strong grower, with leaves which have a rubber-like texture; foliage green; 5 1-2 feet.

BRILLIANT. Flower bright scarlet; foliage green; a very free bloomer; 5 feet.

CHEVALIER BESSON. Flower clear crimson; foliage rich green; free bloomer; 2 feet.

CHAS. HENDERSON. Flower crimson; foliage broad, a rich deep green with narrow margin of bronze; a vigorous grower; 4 feet.

EGANDALE. The best dark leaved Canna; flower cherry red; 4 feet.

ELDORADO. Flower yellow, faintly streaked with red; foliage broad, light green; 3 feet.

FLORENCE VAUGHAN. Flower yellow with bright red spots; large; foliage green; 4 feet.

FLAMBOYANT. Flower flaming red and rather small; foliage green; a profuse bloomer; 5 feet.

ITALIA. Orchid flowered; bright scarlet with broad border of orange; very beautiful; foliage broad and heavy; 6 feet.

J. C. VAUGHAN. Flower bright orange-scarlet; foliage deep bronzy purple. A very free bloomer and a distinct and valuable variety.

J. D. CABOS. One of the best dark foliaged Cannas; flower bright orange; a very distinct variety; a free and continuous bloomer.

MADAME CROZY. The most popular Canna grown. Flower brightest crimson scarlet with golden yellow border; a strong grower and free bloomer, commencing to bloom when plant is but a foot high; 4 feet.

PAUL MARQUANT. Flower large rich salmon shaded with rosy carmine, a distinct, novel and pleasing shade; foliage dark green; 4 feet.

PROFESSOR. Foliage large, deep rich plum, almost black; flower large, deep crimson; 3 feet.

PRESIDENT FALVRE. Flower amaranth red; foliage bronze; a strong grower; very desirable for massing.

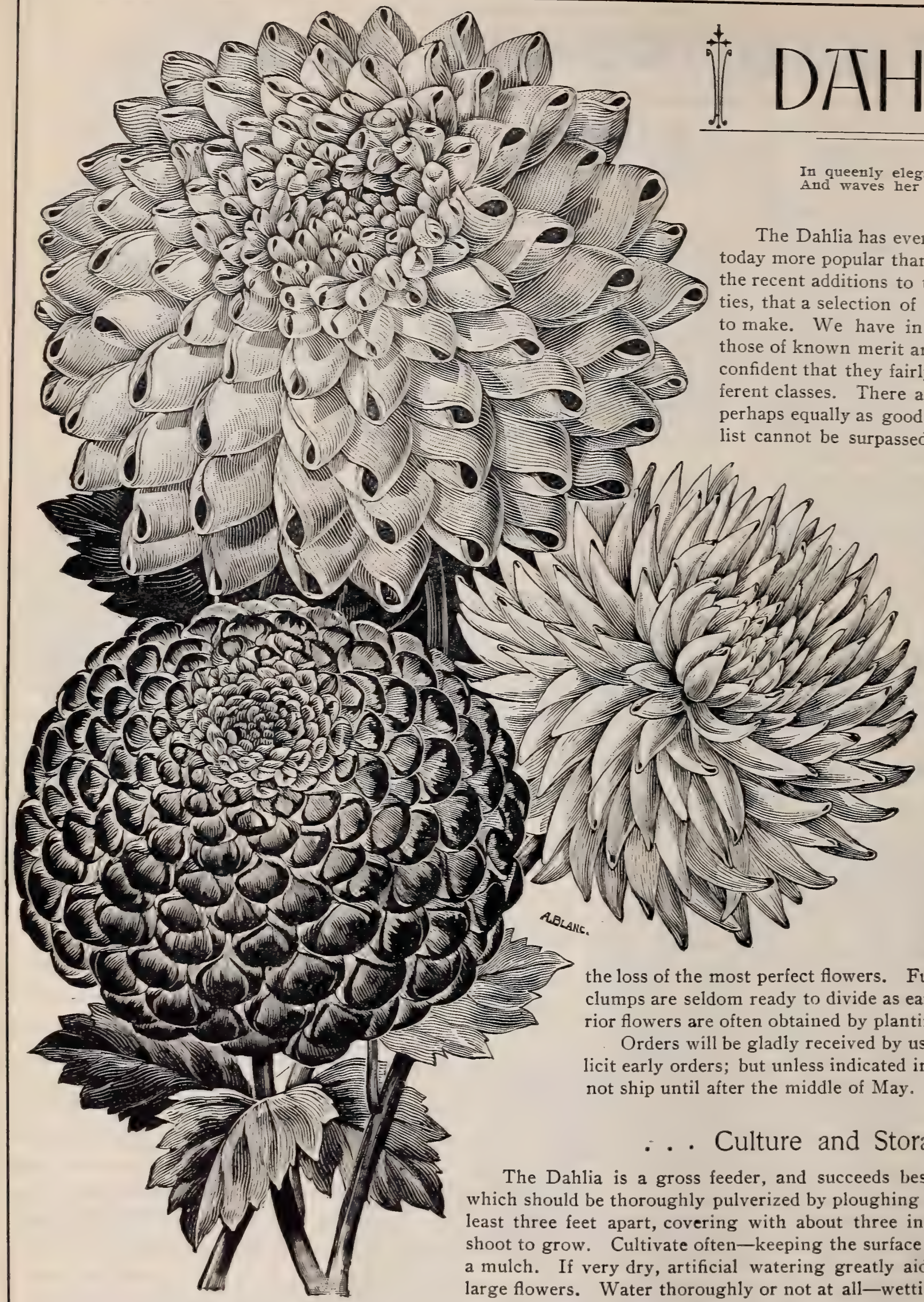
ROBUSTA, A very fine tall-growing variety with dark leaves; 8 to 10 feet.

VICTOR HUGO. Very desirable on account of its fine foliage; leaves resemble those of the banana, bordered with rich bronze; flower large; crimson, 3 feet.

CANNAS—Mixed Varieties. This mixture contains many of the finest varieties, including some of the above and others, mostly of the Dwarf French type. The roots are of our own growing. This mixture, while not permitting so pleasing an arrangement in the bed the first year as the named varieties (that is, according to height of plant and color of flower), will, nevertheless, after growing one year, enable customers to make as satisfactory an arrangement of varieties as can at first be made with the named ones. Per doz. 75c., by mail, postpaid; per hundred, $5.00, by express or freight; 25 at hundred rate.

☞ In a catalogue just received from a well-known firm, we note that the price of Mixed Cannas is $1.50 per Dozen ☜
☞ and $10.00 per Hundred. Just DOUBLE the price of ours per Hundred, and MORE THAN DOUBLE our Dozen price, ☜
☞ as we prepay postage by the Dozen. ☜

DAHLIAS



> In queenly elegance the Dahlia stands,
> And waves her coronet.
> —Flora's Interpreter.

The Dahlia has ever been a popular flower, and is today more popular than ever, so numerous have been the recent additions to the already large list of varieties, that a selection of the best is somewhat difficult to make. We have in the following included only those of known merit and distinctive coloring, and are confident that they fairly represent the best of the different classes. There are other good varieties, some perhaps equally as good as these, but as a whole this list cannot be surpassed, nor are the varieties of any color or form exceeded in merit by any others of similar coloring or form not herein included. Tubers may be planted soon after the first of May, but we by no means advise planting much before the first of June. Our climate is not especially adapted for growing the Dahlia to perfection, lacking the moist atmosphere of England and some other countries, and we get our best blooms in the cool fall months. It is, therefore, essential that planting should be made with reference to this, and there is nothing to be gained by an early planting, as often recommended. On the contrary, our experience, and that of specialists, has proved to us that it is often at the loss of the most perfect flowers. Furthermore, unless forced, the clumps are seldom ready to divide as early as the first of May. Superior flowers are often obtained by planting as late as the first of July.

Orders will be gladly received by us at any time. Indeed, we solicit early orders; but unless indicated in order when desired, we shall not ship until after the middle of May.

. . . Culture and Storage . . .

The Dahlia is a gross feeder, and succeeds best on rich, strong, deep soil, which should be thoroughly pulverized by ploughing or spading. Set the tubers at least three feet apart, covering with about three inches of soil. Allow but one shoot to grow. Cultivate often—keeping the surface of the soil well stirred acts as a mulch. If very dry, artificial watering greatly aids the plant in production of large flowers. Water thoroughly or not at all—wetting the surface only is detrimental rather than helpful to this or any other plant. Before *hard frost* take up the plant, cut off the top, dry the tubers slightly, inverting the clump so that the juice may run out of the stem when cut off. (Neglect of this has occasioned the loss of many.) Store in a cool cellar (inverted). Examine occasionally to see that they are not too dry, which will cause them to shrivel, or too moist, which will start them growing or cause them to rot.

All varieties at the uniform prices of 12c. each; $1.25 per dozen. Postpaid.

Dahlias--Continued.

Show and Fancy Dahlias.

Show Dahlias include all large close flowering varieties of a single color and those in which the ground color is of a lighter shade than the edges or tips.

Fancy Dahlias include all striped large flowering varieties and those in which the ground color is darker than the edges or tips. They are, as a rule, very variable, and often show but a single color.

A. D. Livoni, sea-shell pink. Best of all dahlias,
Amazon, yellow, edged red.
Bird of Passage, light ground, tipped pink.
Crimson Variegatum, deep crimson, tipped white.
Dawn of Day, buff, often shows lighter blotches.
Dr. J. P. Kirkland, dark crimson, very fine, large flower.
Elegans, lilac, tipped white.
Florence, yellow, color good.
Gilder, fawn and lighter shade.
Glowing Coal, scarlet.
Hector, orange scarlet.
John Standish, dark scarlet.
Julia Wyatt, creamy white.
King of Dwarfs, purple.
King of Reds, orange, suffused scarlet.
Maria Gerring, yellow, striped red.
Mantes la Ville, purplish lilac, large and free.
Mary D. Hallock, yellow, good flower, free.
Modesty, blush, with lighter center.
Miss Marsh, rose and white, free and good.
Mrs. Gladstone, soft blush white, often tinged with pink. One of the best.
Mrs. Wytham, buff, large.
Mrs. Stancomb, yellow, tipped fawn.
Picta Fulgens, scarlet, tipped white.
Pioneer, dark maroon, nearly black.
Puritan, white tinted, lavender, crimson spots.
Robin Adair, brown buff, excellent and desirable.
Royal Queen, creamy ground, edged purple.
Woman in White, creamy white.

Pompom Dahlias.

Pompom, or Lilliputian Dahlias, include all small flowering varieties.

Admiral Dot, light ground, edged crimson, closely quilled.
Ariel, orange buff.
Black Dude, dark maroon.
Challenge, crimson, tipped white, very variable.
Darkness, maroon, nearly black.
Fashion, light orange.
Goldperle, yellow and brick red.
H. Miliesky, shaded crimson.
Ida Fisher, rose and white.
John Lucaks, orange red and white.
Kleine Domatea, orange.
Little Bobby, rich crimson.
Little Daisy, rose and white, very fine.
Little Jack, rich crimson maroon.
Little Rifleman, maroon, blotched white.
Mabel, amber.
Rosalie, primrose, often edged pink.
Vivid, orange scarlet.
White Pompom, white.
Winifred, light ground, tipped rose.

Cactus Dahlias.

Cactus Dahlias are characterised by long, pointed, somewhat revolute petals.

Bertha Mawley, cochineal.
Brilliant, bright crimson.
Cannell's Gem, red, shaded orange.
Countess of Radnor, amber, pink and silver.
Juarezii, scarlet, the original "cactus" dahlia.
Kaiserin, sulphur yellow.
Mrs. Barnes, primrose and pink,
Mrs. Bennett, soft crimson.
Mrs. A. Peart, creamy white.
Mrs. Gordon Sloane, pinkish terra-cotta.
Prof. Baldwin, orange.
Robert Cannell, magenta.

Decorative Dahlias.

Decorative Dahlias include all large, loose flowering varieties that do not properly come under the Show, Fancy or Cactus classes. They have often been sold as "Cactus" dahlias, but really are intermediate between the Show and Cactus forms.

Amphion, chrome yellow.
Asia, peach.
Beauty of Brentwood, purple.
Blushing Bride, blush white.
Centennial, crimson and maroon.
Charming Bride, white, tipped rose.
Claribel, rosy purple.
Constance, white.
Countess of Pembroke, soft lilac.
Darwin, rich crimson.
Dawn, copper color.
Edmund Weeksly, crimson and maroon, large.
Empress of India, dark maroon.
Glare of the Garden, bright scarlet.
Harry Freeman, white.
Honoria, amber.
Launcelot, orange.
Maid of Kent, crimson and white.
Mrs. Basham, soft yellow and pink.
Mrs. H. Carter, white and lilac.
Mrs. Keith, fawn and pink.
Oban, fawn.
St. Catherine, reddish amber.
Wm. Pearce, butter yellow.
Yellow A. W. Taft, yellow.
Zulu, dark velvety maroon.

Single Dahlias.

Assorted varieties, our selection.

Special Choice Mixed Dahlias.

Roots of our own growing, but of which we last season unfortunately lost the names. We are, however, sufficiently informed regarding them as to be probably able to select them without duplication and to give a good assortment of colors. This is a rare opportunity to secure a fine collection, as the varieties were those we selected from a list of nearly Five Hundred. The tubers being very large, we can *send only by express.* Per doz. 75c.; per hundred, $5.50.

All varieties at the uniform prices of 12c. each; $1.25 per dozen. Postpaid.

GLADIOLI

At the outset we wish to say that we are enthusiastic admirers of the Gladiolus. No other plant in the production of magnificent and peculiarly beautiful flowers, requiring so little care, can at all compare with this. The ease with which it can be grown, and its adaptability to nearly all soils, places it within the power of all to cultivate it. The range of colorings and markings is practically unlimited, and especially since the introduction of the New Hybrid Seedlings can the claim be made that the varieties are numberless.

While recommended by nearly all to be planted in various places in the garden for an effective display, it is not for this purpose that it is such a favorite with us, although there are many such places where it may be planted with a very striking and desirable effect; but as a cut flower for large vases we think it excels all others. If the spikes are cut when only the lower flowers are open, they will last for a week or more, the upper buds developing one by one into perfect blossoms. Then, too, the season of bloom may be made a long one if early and successive plantings are made. All in all, its ease of culture, certainty of success, range of color and lovely blendings and markings, its effectiveness in the garden, its greater desirability as a cut flower, and possible length of season of bloom, makes the Gladiolus worthy a place in every garden. It is such a favorite of ours that no words of praise would seem to us extravagant, and if space would permit we should feel inclined to say still more in regard to a more extensive planting of this lovely, well-known, but too little appreciated flower.

CULTURE.—Plant in full exposure to the sun. A light, moist soil one year from sod is the most desirable, but the Gladiolus thrives well in nearly all soils, the exception being a stiff, clayey one. While soil should be well enriched, avoid using fresh manure; use only that which is well rotted. Much the better way is to use land that was well manured the previous year, using none at the time of planting. If possible, avoid planting in the same place for three years. (See next page.)

GLADIOLI--Continued.

If space is limited, bulbs may be planted in double rows, four inches between the rows and two inches apart in the row; they are, however, more generally planted in single rows about one foot apart, two, three or four inches deep, according to size. The first planting may be made by the middle of April, and successive ones till the first of June, but for late planting the largest bulbs should be reserved.

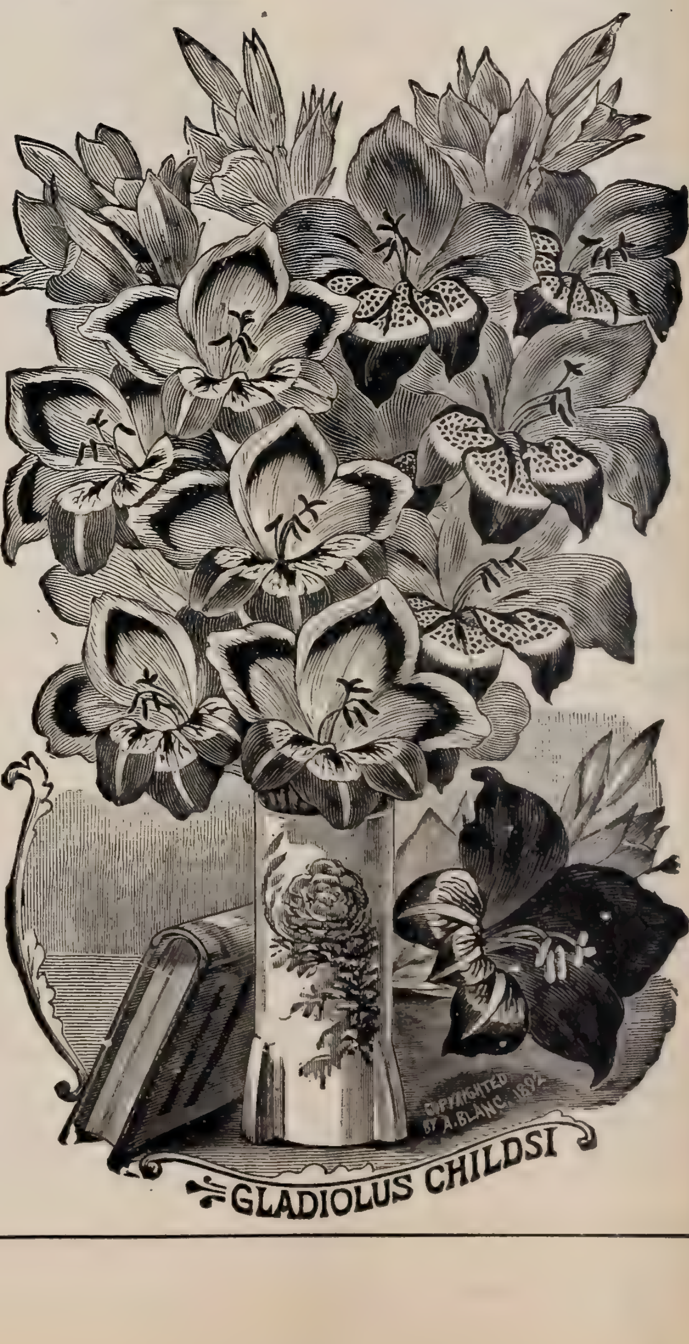
Before the ground freezes dig up the bulbs, cut off the stalk closely and store in a cool, dry place. The old bulbs may be removed a few weeks later when convenient.

CHOICE NAMED VARIETIES.

Addison. Dark amaranth, with white stripes. 10c.
Africain. Darkest crimson black, with pure white blotch in throat. The darkest and one of the finest colors; large flower and spike. 10c.
Angele. White, showy and effective. 10c.
Aurore. Bright salmon rose, striped orange, carmine and rose, blotch cherry rose, streaked violet. 10c.
Brenchleyenis. Vermilion scarlet; fine old variety. 5c.
Chameleon. Compact truss of large, slaty lilac flowers, flamed orange, with white bands in centre of each petal, large creamy white blotch streaked violet. 10c.
Canary Bird. Fine yellow. 15c.
Conquete. Large and fine flower of bright cherry red, with conspicuous pure white blotch, upper petals striped with delicate rose. 10c.
Diamant. Fleshy white, of a remarkable freshness, throat ivory white; blotched and streaked carmine. 10c.
Fatma. Very large flowers of ivory white ground, profusely striped and suffused with bright rosy salmon; violet blotch. 10c.
Flamboyant. Large flowers, fiery scarlet. 10c.
Grand Rouge. Enormous spike and flower of perfect shape, intense scarlet, with small violet blotch in throat; the grandest of all scarlets. 10c.
Isaac Buchanan. Very fine yellow. 5c.
John Bull. White, slightly tinged with sulphur. 5c.
Lamarck (de). Cherry, slightly tinted with orange, blazed with red; very large pure white stain. 8c.
Madame de Vatry. French with purplish carmine blotch. 10c.
Madame Monneret. Delicate rose. 5c.
May. A lovely pure white flower, finely flaked, bright rosy crimson, superb spike. 8c.
Mr. Bains. A clear, light, red self color, very distinct. 10c.
Napoleon III. Bright scarlet, white line on each petal. 5c.
Octoroon. A beautiful salmon pink, very distinct. 10c.
Pepita. Bright golden yellow, slightly striped carmine at the edges of the petals toward end of the flowering season. 10c
Princess of Wales. White, flamed with carmine rose, deep carmine blotch. 10c.
Reine Blanche. Pure white, dark carmine blotch. 8c.
Romulus. Very brilliant dark red, pure white blotch, large white lines on lower petals. 8c.
Snow White. Absolutely pure snow white, the only pure white Gladiolus, large and well open; enormous spike of perfect shape. 20c.
Sylphide. Pure white, flamed carmine, extra large. 15c.
Van Spandonk. Fiery red, splendid. 10c.

For $1.00 bulbs of above may be selected amounting to $1.25.

The CHILDSI--Or Max Leichtlin Hybrids.



GLADIOLUS CHILDSI

The introducer of this beautiful class says of it, "No novelty in floriculture has been introduced during the past ten years which equals in importance, magnificence, or value, this distinct new strain of Gladioli first produced by us in 1892. They far outrank all other Gladioli in size of spike, size of bloom, vigor, varied and magnificent coloring and freedom of bloom. They were produced by Max Leichtlin, of Germany, the most noted horticulturist in the world, and are the result of a careful cross between the finer varieties of Gandevensis and that lovely species, Saundersoni.

They are much stronger and more vigorous than others, the growth being exceedingly rank, and the foliage dark, healthy green. They are very tall and erect, often standing four or five feet high with spikes of bloom over two feet in length. They branch freely, in most cases each stem producing three or four spikes of bloom, and bloom much earlier than ordinary varieties."

Bowdoin. Very large flower, light orange scarlet, with large, pure white throat. Very exquisite.
Boston. Flaming orange scarlet, with large, pure white throat.
Columbia. Light orange scarlet, freely blotched and penciled with bluish purple. Throat freely marked and mottled.
Dr. Sellew. Large spike and very large flower, of great substance. Deep, rich rosy crimson, slightly penciled darker. Center of petals rayed with white. Throat pure white.
Ethel. Beautiful soft rose color, with white and crimson.
Henry Gillman. Deep salmon scarlet, with pure white bands through each petal, the throat showing peculiar mottling.
Livonia. Light red, with white mottled throat.
Little Blush. Dwarf habit, compact spike of blush white.
Mohonk. A strong, rank grower, flowers of large size and great substance. Deep dark pink, with spotted throat, shaded orange and flaked with maroon.
Nezinscott. Bright blood scarlet, with deep velvety crimson-black blotches and white mottling in the throat.
Old Oxford. Slaty crimson, heavily clouded with blue. Large crimson and white mottled throat.
Splendor. A splendid large flower, of the softest, sweetest rose color. Large magenta stains, with purple and white mottlings.
Sacramento. Deep, bright coral-scarlet, with white mottlings.
Torch-Light. Very large spike of large, light flaming scarlet flowers. Throat mottled and spotted white and violet.
Wm. Falconer. Spike of great length and flowers of enormous size. Light pink and blush, delicate, freely mottled.

Each, 10c; 3 for 25c; dozen, 75c, postpaid.

GROFF'S HYBRID SEEDLINGS--Claimed to be the . . . Most Popular Strain in America.

The original introductions of Mr. Groff, awarded certificate of merit by the Society of American Florists, New York, in 1900.

Dozen, 50c; hundred, $3.00; postpaid.

GLADIOLI—Continued.

The Lemoine Hybrids

The flowers of this class, while not generally as large as of most others, are of rare beauty and great diversity of color, probably in the latter respect surpassing any other strain unless it be the Groff's Hybrids. We offer the leading varieties and a choice mixture.

Atlas.—Clear violet, large velvety maroon blotch.
Admiral Pierre.—Dark carmine-red, lower divisions clouded with purplish maroon, surrounded with light yellow.
Bajazet.—Lovely light pink, shading to delicate blush.
Bassuet.—Large; brilliant vermilion.
F. Bergman.—Large; orange-pink, white carmine stains.
Etendard.—Light brick red; with large yellow blotches.
Gambetta.—Dark amaranth-red. Exceedingly rich.
Cleopatra.—Red, carmine blotches, tinged with yellow.
Chas. Martel.—Rosy blush; intense large carmine blotch.
Decheville.—Salmon red, buff blotch.
Emilie Lemoine.—Bright vermilion, dotted gold.
Enfant de Nancy.—Purplish red, lower petals deep carmine color, and blotching entirely new.
Incendiary.—Fiery red, large blotch of crimson-red.
Lafayette.—Very large; yellowish salmon, crimson blotches.
La France.—Light salmon, velvety purple blotches.
Lamarck.—Salmon; crimson and yellow spots.
Lamartine.—Rosy flesh, with large, bright maroon blotch.
Marie Lemoine—Long spike of fine, pale, creamy color, flushed salmon-lilac, spotted violet and yellow.
Mme. Lemoiner.—White, tinged with salmon.
Vashti.—Creamy white, blotched carmine.

Each, 6c.; 3 for 15c. Dozen, 50c. Postpaid.

MIXTURES.

BUFFALO MIXTURE. This is composed entirely of selected named varieties—Mr. Burbank's California Select, Mr. Gray's Ingleside Hybrids, and named Childsi. Doz. 75c.; hundred, $5.00. Postpaid.

CHILDSI MIXED. Bulbs first size and quality. Doz. 40c.; hundred, $2.75. Postpaid.

EXTRA FINE MIXED LEMOINE. A choice selection of varieties and of an exceedingly wide range of colorings. Doz. 35c.; hundred, $2.50. Postpaid.

OUR WORCESTER MIXTURE. This mixture, made by us, comprises all the different classes. It contains named varieties of each in white and light yellow, scarlet and variegated shades, the new Hybrids and choice seedlings; and for diversity, cannot be surpassed by any other of similar price, if, indeed, by any. All bulbs are strictly first size. By that we do not wish to convey the idea that all are equally large (as some of the choicest varieties never have large bulbs), but that they are of the first size of the different varieties. Doz. 50c.; hundred, $3.50. Postpaid.

OUR CHOICE MIXED. Many varieties. Bulbs first size. Doz. 30c.; hundred, $2.00.

OUR POPULAR MIXTURE. Bulbs good blooming size but not all strictly first size. Of an excellent range of colors and equal to many of the mixtures generally offered at much higher prices. Doz. 25c.; hundred, $1.50.

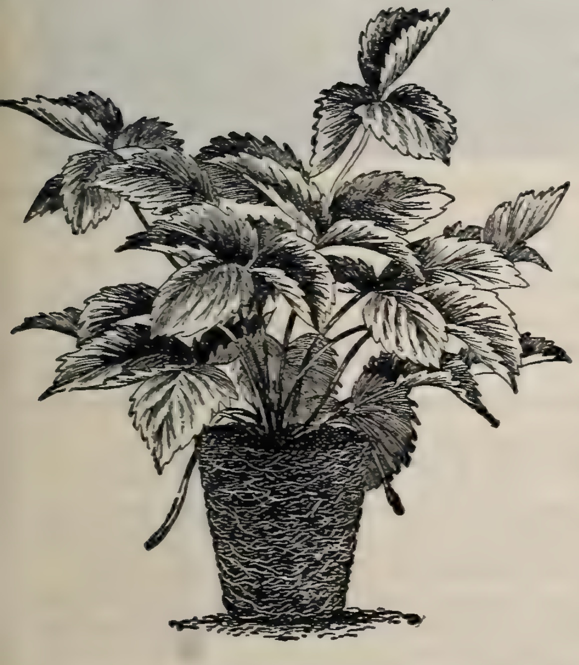
WHITE AND LIGHT VARIETIES, MIXED. Very choice and true to color. Doz. 35c.; hundred, $2.35. Postpaid.

All Gladioli sent postpaid at prices quoted. If desired sent with other articles by express, deduct 5c. per doz. or 25c. per hundred.

TUBE ROSE. (Excelsior Pearl.) The Excelsior strain of Double Tube Rose is of dwarf habit, and therefore it is not as necessary to stake it, as the tall.

Extra Large Bulbs. Each, 4c., 3 for 10c. Doz. 40c., postpaid.
Medium Size. Each, 3c., 4 for 10c. Doz. 25c., postpaid.

MADERIA VINE. A rapid, beautiful climber, with wax-like light green leaves and feathery, white flowers, with fragrance resembling Mignonette. Of easiest culture, simply needing planting when danger of frost is past and a trellis or string to run on. Each, 5c., 3 for 10c.; dozen, 35c.; postpaid.



Strawberry Plants.

... Home Grown ...
Fresh from the Grounds.

We are prepared to furnish the following varieties of Strawberry Plants, all grown on our own grounds, and will be dug and packed carefully, so that there will not be the disappointment caused by sending West or South and getting plants that are dried up and nearly dead when they are set out. We have tested these and *know they are good.*

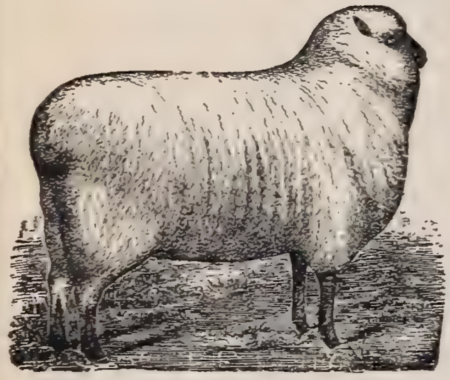
Brandywine (S.)—A large, late and handsome berry, conical form, dark, glossy red. Plant healthy, vigorous and productive.
Bubach (P.)—Of large and uniform size, regular in form and of good color. Plant remarkably vigorous and unsurpassed in productiveness. Probably more largely planted at present than any other variety.
Clyde (S).—Fruit large, firm and beautiful, of regular conical shape, never varying, and holds size to end of season. Color light scarlet. Considered by some good growers to be almost a perfect variety.
Glen Mary (S.)—A good sort for the kitchen garden. Berries conical, bright red, of fine flavor.
Talbot (P.)—Fruit large, bright crimson, and of fine flavor; very productive. Doz. 50c. 100, $1.50.
Seaford (S.)—A new sort, grown largely around Boston. Fruit large and handsome.
Marshall (S.)—Good to set with Talbot or other imperfect flowered varieties. One of the largest and finest kinds in cultivation.
Sample (P.)—One of the best market berries in cultivation. Fruit fine color and flavor.
Minute Man (P.)—One of the most valuable new sorts, continuing in bearing for an unusually long time. Fruit bright scarlet in color, very sweet. Per 100, $2.00. Per doz., 60c.

Varieties marked (S) have a perfect flower, and will fruit if planted alone. Those marked (P) are imperfect flower, and must be fertilized with some other perfect flowered sort.

Any of the above (except Minute Man) by mail, postpaid, Doz. 40c. 100, by express, 90c. Special price by the 1000. Pot Plants, in August, per 100, by express, $2.50.

FERTILIZERS ❀ AND ❀ CHEMICALS

For the Farm, Lawn, Flower Garden or Greenhouse.



PULVERIZED SHEEP MANURE.

This is a pure, natural manure, and the most nutritious food for plants. Its effect is immediate, much more lasting and healthy than guano or any other manure. It is the best of all manures for mixing with the soil for greenhouse plants. It makes the richest, safest and quickest liquid manure, rivaling guano, without any deleterious effect. Instead of being put up in the natural state as formerly, we have it kiln-dried and then finely pulverized, which makes it much more convenient to handle, and it can be kept in any cellar for an indefinite length of time.

DIRECTIONS. For mixing with soil: Take one part manure to six of soil. For making a liquid: Take one pound of manure to five gallons of water. This can be used with safety every day.

Prices. Ton, $25.00; 100 lbs. $1.75; 5 lbs. 25c. Special Price by the Car Load.

ROSS' LAWN AND GARDEN FERTILIZER

The old idea of covering your lawn in the fall with stable manure, and allowing it to remain through the winter, and then raking off everything in the spring except the foul seed, which usually constitutes a large part of the mixture, is gone by, and instead some kind of commercial fertilizer is used. We mix our own LAWN DRESSING, using Bone Ashes, Potash, Nitrate of Soda and Sheep Manure. These are mixed in the right proportion to carry a lawn through the season and give the grass an early start in the spring. This is growing in favor, and our sales last season was nearly double that of the season before.

Price: 25 lbs. 60c.; 50 lbs. $1.15; 100 lbs. $2.00.
Special Price by the Ton or Car Load.

-- CHEMICALS. --

For those who want to buy chemicals and do their own mixing we are in a position to furnish at bottom prices. We sell usually in original packages, and analysis guaranteed. The following prices are subject to change without notice.

NITRATE OF SODA.	95 per cent purity.	Per 100 lbs. $2.50; per ton, $45.00
MURIATE OF POTASH.	80 to 85 per cent.	Per 100 lbs. $2.50; per ton, $44.00
SULPHATE OF POTASH.	50 to 55 per cent.	Per 100 lbs. $1.75; per ton, $30.00
SULPHATE OF POTASH.	90 to 95 per cent.	Per 100 lbs. $2.75; per ton, $48.00
SULPHATE OF AMMONIA.	25 per cent.	Per 100 lbs. $3.50; per ton, $70.00
DIS. BONE BLACK.	15 per cent.	Per 100 lbs. $1.50; per ton, $22.00
DIS. BONE BLACK.	12 per cent.	Per 100 lbs. $1.40; per ton, $20.00
DRIED BLOOD.	12 to 15 per cent.	Per 100 lbs. $2.00; per ton, $37.00
KAINIT.		Per 100 lbs. $1.00; per ton, $14.00
TANKAGE.	6 to 8 per cent Ammonia.	Per 100 lbs. $1.50; per ton, $27.00
TANKAGE,	9 to 20 per cent.	Per 100 lbs. $2.00; per ton, $34.00
PLAIN SUPERPHOSPHATE.		Per 100 lbs. $1.00; per ton, $18.00
SOUTH CAROLINA FLOATS.		Per 100 lbs. $1.00; per ton, $16.00

Special Prices in Large Lots.

CANADA HARDWOOD ASHES.

The main features of wood ashes are that they contain Potash, Phosphoric Acid and Lime, obtained from a source which places them naturally in the most soluble, and, therefore, the most available and acceptable form necessary for the plant. Potash and phosphoric acid are two of the mineral elements of plant food which are taken up by growing plants.

Price. Ton, $12.00; 100 lbs. $1.00, Special Price in Car Lots.

PURE FINE GROUND BONE.

This is phosphoric acid in the cheapest form. We handle nothing but the best. **Price. Ton, $28.00; 100 lbs. $1.75.**

ESSEX PLANT FOOD.

Used for house plants. It produces a healthy and vigorous growth which causes early flowering.

Large Package, 25c. Small, 10c. By Mail, 45c. and 20c.

"JADOO FIBRE."

A new material in which every plant thrives without earth. Suits all kinds of plants. As many as thirty different kinds of earth mixtures are required for successfully growing the different kinds of plants. "JADOO" Fibre does away with all of this.

Price. 100 lbs. $2.00; 25 lbs. $1.10; 5 lbs. 25c.

$10,000.00 GUARANTEE

THAT not one pound of Rock Phosphate is used in the manufacture of these Fertilizers. No other company will or can make any such guarantee, for they all use it as a basis for their goods.

BASIS OF MAPES IS HIGH GRADE BONE.

Mapes Complete Fertilizers.

LOW PRICES OF LAST YEAR UNCHANGED.

For 20 years this Fertilizer has stood at the head and will take no step backward in the coming 20th Century.

Extract from the 22d Annual Report of the Connecticut State Agricultural Experiment Station, Published 1899, Page 48.

Since various inferior or agriculturally worthless forms of nitrogen are in the market and are known to be used in compounding fertilizers, and cannot as yet be detected with certainty by analysis, the only security of purchasers of mixed fertilizers is in dealing with firms which have the highest reputation and are able to satisfy their customers that they use the best raw materials, and in avoiding "cheap" goods offered by irresponsible parties.

THE MAN BEHIND THE BAG. (From the Rural New Yorker, April 29, 1899.)

The scientific men at the experiment stations have been studying the fertilizer problem for more than twenty years. They have unlocked many hard secrets, but all their digging over of facts only rubs one great truth brighter. **"The man behind the bag gives character to the analysis!"** The mere analysis printed on the bag tells only one part of the story. To buy safely one must go behind the bag and know the character of the men who make the mixture. We have had dealings with the Mapes Fertilizer Company, of 143 Liberty Street, New York for many years. It is safe to buy their fertilizers, for "the man behind the bag" aims at the crop. "Mapes" means good mixture of the best chemicals. The name on the bag is fairly a part of the analysis—the ear-marks of high quality—whether the mixture be for potatoes, grain, grass, corn, fruit or truck.

The above tells the Story just as it is.

We are selling the same farmers today that we sold 15 years ago.

Potato Manure.—Ammonia, 4.50 to 5 per cent.; Phosphoric Acid, 8 to 10 per cent. (soluble and available, 8 per cent) Soluble Potash, actual, 6 to 8 per cent., all as high grade Sulphate, and in forms free from Muriates (or Chlorides), Magnesia, Lime, etc. For Irish and Sweet Potatoes, also Asparagus, Early Vegetablas, Tomatoes, Sugar Beets, Sorghum and Sugar Cane. **Per ton, $39.00**

Corn Manure.—Ammonia, 3.50 to 5 per cent.; Phosphoric Acid, 12 to 13 per cent. (soluble and available, 8 to 10 per cent.); Soluble Potash, actual, 6 to 7 per cent. For Sweet Corn, Fodder Corn, Hungarian Grass, Millet, Late Turnips, Late Cabbage, Seeding to Grass. **Per ton, $35.00**

Complete Manure.—(For general use.)—Ammonia, 4 to 5 per cent.; Phosphoric Acid, 10 to 12 per cent. (soluble and available, 8 to 10 per cent.); Soluble Potash, actual, 4 to 5 per cent. A substitute for stable manure. For use on all crops and all soils, with or without stable manure. Use broadcast; if any in hills, use sparingly. Special for Oats, Hungarian Grass, Vegetables, Melons, Tomatoes and Seeding with or without grain. **Per ton, $37.00**

Grass and Grain Spring Top-Dressing.—Ammonia 5 to 7 per cent.; Phosphoric Acid, 7 to 9 per cent. (soluble and available, 7 per cent.); Soluble Potash, actual, 5 to 7 per cent. **Per ton, $40.00**

Economical Potato Manure.—Ammonia, 4 to 5 per cent.; Phosphoric Acid, 6 to 8 per cent. (soluble and available, 4 to 5 per cent.); Soluble Potash, actual, 8 to 10 per cent.; all as high grade Sulphate and in forms free from Muriates (or Chlorides.) **Per ton, $36.00**

Fruit and Vine Manure.—Ammonia, 2 to 3 per cent.; Phosphoric Acid, 7 to 9 per cent. (soluble and available, 5 to 7 per cent.); Soluble Potash, actual, 10 to 12 per cent.; all as high grade Sulphate and in forms free from Muriates (or Chlorides.) For insuring fruiting power, particularly in quality of fruits in vineyards (Grapes), Pears, Apples, Plums, Strawberries, and small fruits. Is slow in effects. **Per ton, $39.00**

Field of Grass grown by J. E. Fuller, Worcester, Mass. Over Four Tons Per Acre and Grown with Mapes Manures.

Complete Manure.—("A" Brand.)—Ammonia, 3 to 4 per cent.; Phosphoric Acid, 12 to 16 per cent. (soluble and available, 10 to 12 per cent.); Soluble Potash, actual, 2.50 to 3.50 per cent. For use in hill or drill on all crops, particularly in connection with farm manure. Special for Peas, Beans, Buckwheat and Turnips. **Per ton, $34.00**

Complete Manures for Light Soils, or Vegetable Manure for all Soils.—Ammonia, 6 to 8 per cent.; Phosphoric Acid, 8 to 10 per cent. (soluble and available, 6 to 8 per cent.); Soluble Potash, actual, 6 to 8 per cent. This is our special manure on all kinds of soils, for Truck; Early Vegetables, Onions, Celery, Tomatoes; also on light soils for Oats, Hops and Barley. All vegetables require liberal supplies of soluble potash, and in the proper forms, Even with heavy or clay soils the natural supplies of potash are insufficient. **Per ton, $40.00**

Cereal Brand.—Ammonia 2 to 3 per cent.; Phosphoric Acid, total, 8 to 10 per cent. (soluble and available, 6 to 8 per cent.); actual Potash, 3 to 3.50 per cent. For Corn, Rye, Buckwheat, etc. Specially adapted for use in hill or drill. **Per ton, $28.00**

The above prices are for ton lots. Small lots $1.00 per ton extra. Two ton lots $1.00 per ton less.

SPECIAL PRICE IN 3 TO 5 TON LOTS.

Bradley's Standard Fertilizer

Made for All Crops, and Always Reliable Under All Conditions.

Bradley's XL Phosphate has been sold for a quarter of a century and has always given perfect satisfaction. It is a helper on all crops and can be depended upon when other cheap brands fail. ☘ ☘ ☘ ☘ ☘ ☘

BRADLEY'S POTATO MANURE.

For growing Smooth, Sound Potatoes of the Best Quality, without Barnyard Manure. Bradley's Potato Manure is in no sense a theoretical or experimental mixture, but is prepared from formulas which repeated field tests have proven will produce the largest crops of smooth, sound potatoes.

ANALYSIS.

	Per Cent.
Nitrogen, Equal to Ammonia,	3.00 to 4.00
Available Phosphoric Acid,	6.00 to 8.00
Total Phosphoric Acid,	8.00 to 11.00
Potash (K_2O)	5.00 to 6.00
Equal to Sulphate Potash,	9.00 to 11.00

Bradley's Complete Manure for Potatoes and Vegetables.

Is particularly rich in ammonia and potash, and has given phenomenal results in growing large crops of the best quality of potatoes, onions, beets, turnips, carrots, cabbages, squashes, melons, etc. It is the most perfectly balanced fertilizer manufactured for growing all kinds of root crops and market garden truck. It is the market gardener's favorite.

ANALYSIS.

	Per Cent.
Nitrogen, equal to Ammonia,	4.00 to 5.00
Available Phosphoric Acid,	8.00 to 11.00
Total Phosphoric Acid,	9.00 to 13.00
Potash (K_2O),	7.00 to 8.00
Equal to Sulphate Potash,	12.95 to 14.80

OUR PRICES FOR 1902.

Bradley's XL Phosphate, 25 lb. bag,	$ .60
Bradley's XL Phosphate, 50 lb. bag,	1.00
Bradley's XL Phosphate, in 100 lb. bags, ton lots,	32.00
Bradley's Potato Manure, in 100 lb. bags, ton lots,	32.00

Bradley's Complete Manures for Potatoes and Vegetables—Corn and Grain—Top Dressing and Grass and Grain—Bradley's Complete manure with 10 per cent. Potash, in ton lots, $36.00. A liberal discount will be allowed for cash.

Special Prices on Five and Ten Ton Lots.

Swift's Lowell Animal Fertilizers.

The basis for these goods is slaughtering and rendering house products, to which is added high grade potash. We have had a very nice trade in this brand of fertilizer, and it gives perfect satisfaction, and we believe that with the facilities the Swift people have they are a position to manufacture Fertilizer as cheap as any house in the country. We handle the following brands:

Swift's Lowell Bone Fertilizer

FOR CORN AND GRAIN.

Guaranteed Analysis.

Ammonia,	2	to	3	per cent.
Total Phosphoric Acid,	9	"	12	" "
Insoluble " "	1	"	2	" "
Available " "	8	"	10	" "
Potash (K_2O)	3	"	4	" "
Equiv. to Sulphate Potash,	5.55	"	7.40	" "

Price per ton, $28.

Swift's Lowell Potato Manure.

Guaranteed Analysis.

Ammonia,	2	to	3	per cent.
Total Phosphoric Acid,	8	"	11	" "
Insoluble, " "	1	"	2	" "
Available, " "	7	"	9	" "
Potash (K_2O)	4	"	5	" "
Equiv. to Sulphate Potash,	7.40	"	9.25	" "

Price per ton, $28.00.

Swift's Lowell Animal Fertilizer.

COMPLETE MANURE FOR ALL CROPS.

Guaranteed Analysis.

Ammonia,	3	to	4	per cent.
Total Phosphoric Acid,	10	"	12	" "
Insoluble " "	1	"	2	" "
Available " "	9	"	11	" "
Potash (K_2O)	4	"	5	" "
Equiv. to Sulphate Potash,	7.40	"	9.25	" "

Price per ton, $30.00.

Swift's Lowell Potato Phosphate.

Guaranteed Analysis.

Ammonia,	3	to	4	per cent.
Total Phosphoric Acid,	9	"	12	" "
Insoluble " "	1	"	2	" "
Available " "	8	"	10	" "
Potash (K_2O)	6	"	7	" "
Equiv. to Sulphate Potash,	11.12	"	12.95	" "

Price per ton, $33.00.

Essex High Grade Fertilizers

Raise Good Crops.

* * *

THE **Essex Fertilizers** have as a basis the **Dry Fish** and **Fish Bone** produced by the Russia Cement Co. In the process of manufacture owned by this company, and which no other manufacturer can obtain, these ingredients are manipulated in a way which renders them especially available as plant food.

This accounts for the superior availability and crop producing power of the

Essex Fertilizers.

These superior qualities have been fully demonstrated in Worcester County and vicinity, and we call your attention to the following letters from well-known farmers and market gardeners who have tested the "Essex" in competition with the best of other leading brands.

Hudson, Mass., Aug. 13, 1901.

Russia Cement Co.

Gentlemen—I purchased of your agent here about 3 1-2 tons of your Complete Manure and used it on a large variety of market crops, beginning with asparagus, and my agents in Boston gave me credit for sending the finest grass that they received. Your fertilizer has done well on all crops, and I am perfectly satisfied that it is all you claim for it, a Complete Manure, one of the best, if not the best made. Very truly yours,

GEO. E. OSGOOD.

Marlboro, Mass., Aug. 5, 1901.

Russia Cement Co., Gloucester, Mass.

Gentlemen—I have used your Fertilizer for the last three years and have sold it for the last year, and it has given good results on all crops. I am today digging Hebron potatoes grown on fertilizer alone, and getting a fine yield for the time planted. My corn, I think, cannot be surpassed, and my tomatoes are fine. Customers to whom I have sold this year are highly pleased with the prospect of big crops grown on your brands. One man told me today that his crops grown on your Complete Manure for Potatoes, Roots and Vegetables by the side of other brands of equal cost, were far ahead.

Yours truly, MOSES E. STONE.

North Brookfield, Mass., Aug. 19, 1901.

Mr. H. W. Loring, Agt. Russia Cement Co.

Dear Sir—I raised this year two acres of early potatoes, the best I ever raised, using Essex Complete Manure for Potatoes, Roots and Vegetables at the rate of 1800 lbs. per acre, with no manure. The first lot were planted April 4th and I commenced to dig July 16. Seven-eighths of an acre yielded 157 bushels of marketable potatoes, smooth and of excellent quality.

My cabbage, planted on same variety of fertilizer, I do not think can be beat. I have cut heads weighing 21 lbs in 59 days from planting. I consider the Essex Fertilizers the best for the market gardeners, as crops grow so very quickly, giving in my case the best prices. I have tried your fertilizers on all my crops; peas, beans, cucumbers, etc., and they have done well in every case.

I am so well satisfied with results this season that I shall use more next, and shall recommend your goods to all who wish a reliable article for their money.

Wishing you success, I am truly yours,

GEO. F. WRIGHT.

Essex A 1 Superphosphate.

Guaranteed Analysis.

Ammonia.	1¼	to	1½	per cent.
Available Phosphoric Acid,	7	to	8	"
Total Phosphoric Acid,	9	to	11	"
Actual Potash,	2	to	2½	"

Price per ton, $26.00.

Essex XXX Fish and Potash.

Guaranteed Analysis.

Nitrogen,	2.1	to	3	per cent.
Equivalent to Ammonia,	2½	to	3	"
Soluble Phosphoric Acid,	4½	to	5½	"
Reverted Phosphoric Acid,	4½	to	5	"
Insoluble Phosphoric Acid from Bone,	3	to	3½	"
Total Phosphoric Acid,	12	to	14	"
Actual Potash,	2¼	to	3¼	"

Price per ton, $30.00.

Essex Corn Fertilizer.

Guaranteed Analysis.

Nitrogen,	2	to	2.5	per cent.
Equivalent to Ammonia,	2.4	to	3	"
Soluble Phosphoric Acid,	4	to	5	"
Reverted Phosphoric Acid,	4.5	to	5	"
Insoluble Phosphoric Acid from Bone,	2	to	3	"
Total Phosphoric Acid,	10.5	to	13	"
Actual Potash,	3	to	3.5	"

Price per ton, $33.00.

Essex Market Garden and Potato Manure.

Guaranteed Analysis.

Nitrogen,	2	to	2.5	per cent.
Equivalent to Ammonia,	2.4	to	3	"
Soluble Phosphoric Acid,	4	to	5	"
Reverted Phosphoric Acid,	4	to	5	"
Insoluble Phosphoric Acid from Bone,	2	to	3	"
Total Phosphoric Acid,	10	to	13	"
Actual Potash,	5	to	6	"

Price per ton, $33.00.

Essex Complete Manure for Corn, Grain and Grass,

Guaranteed Analysis.

Nitrogen,	3.3	to	4.1	per cent.
Equivalent to Ammonia,	4	to	5	"
Soluble Phosphoric Acid,	3	to	3½	"
Reverted Phosphoric Acid,	4	to	4½	"
Insoluble Phosphoric Acid from Bone,	2½	to	3	"
Total Phosphoric Acid,	9½	to	11	"
Actual Potash,	9½	to	11	"

Price per ton, $38.00

Essex Complete Manure for Potatoes, Roots and Vegetables

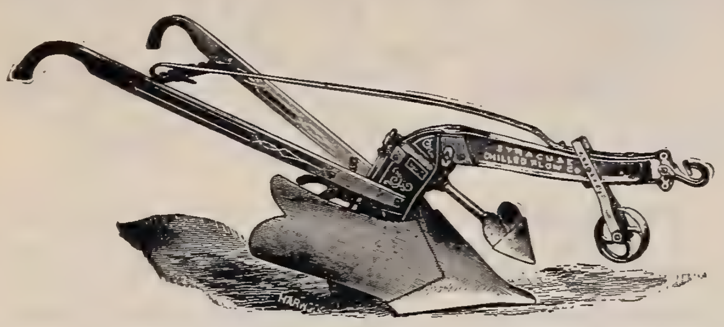
Guaranteed Analysis.

Nitrogen,	3.7	to	4½	per cent.
Equivalent to Ammonia,	4½	to	5½	"
Soluble Phosphoric Acid,	3	to	3½	"
Reverted Phosphoric Acid,	4	to	4½	"
Insoluble Phosphoric Acid,	2	to	3	"
Total Phosphoric Acid,	9	to	11	"
Actual Potash from Sulphate,	8½	to	10	"

Price per ton, $39.00.

Syracuse No. 60 Plow,

With Steel Cutter or Jointer, Steel or Chilled Moldboard.



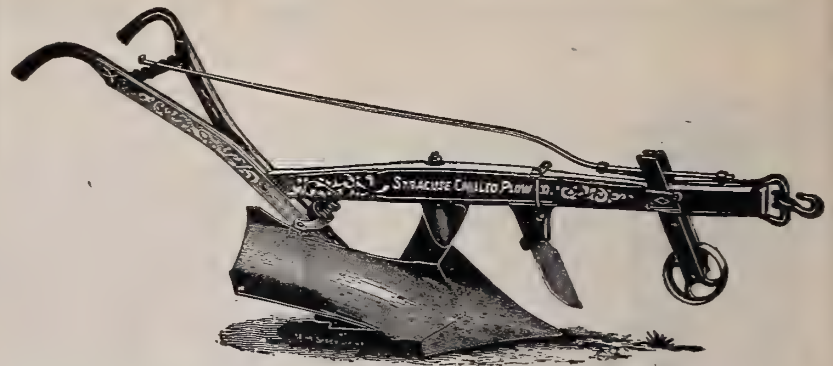
This is our leading two-horse swivel plow and will work on level land or sidehill. It has an Iron beam, steel or chilled moldboard, patent foot latch and shifting clevis. Cuts 5 to 8 in. deep, 12 to 15 in. wide; wt., 138 lbs.

List Price, Steel Moldboard, ...	**$15.50**
List Price, Cast Moldboard, ...	**14.00**

Discount for Cash, $2 00

Diamond A, B and C Plows,

With Wood Beam Steel, or Chilled Moldboard

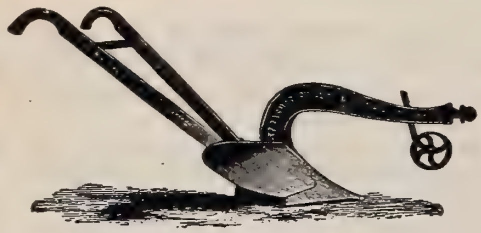


Excepting the No. 60 this is our best swivel plow, and where a wood beam is preferred it is unequalled. It is furnished with Steel or Chilled moldboard, patent foot latch, wheel and cutter and shifting clevis. All parts interchange with the 76 plow made at Castleton, Vt.

A	cuts	5 to 7 in.,	11 to 14 in.	wide;	wt., 119 lbs.	List Price,	$13.00
B	"	4 to 6 "	8 to 12 "	"	" 114 lbs.	" "	12.00
C	"	3 to 5 "	7 to 8 "	"	" 71 lbs.	" "	8.50

A and B are two-horse; C one-horse. A and B have wheel and cutter. C has wheel. Disc. for cash on A and B, $3.00; C. $1.00. Steel Moldboard, $1.00 extra.

Syracuse No. 5 Vineyard Plow, one horse.



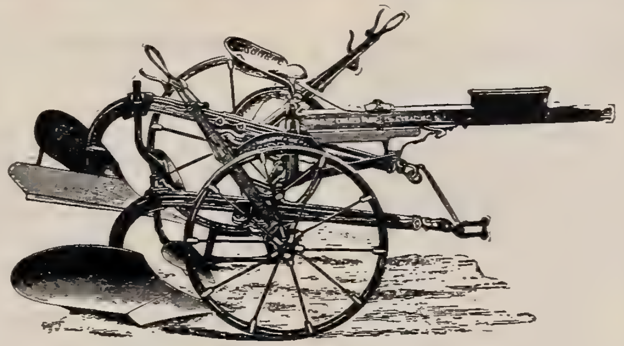
This plow is designed for plowing between rows of trees or vines. The handles are adjustable sideways or up and down. The horse can walk in the furrow or on the land. It can also be used for garden plowing. Iron beam; cuts 3 to 5 in. deep, 7 to 10 in. wide; wt., 63 lbs.

List Price, with wheel, $7.00.

Discount for cash 50 cts.

Syracuse Reversable Sulky Plow,

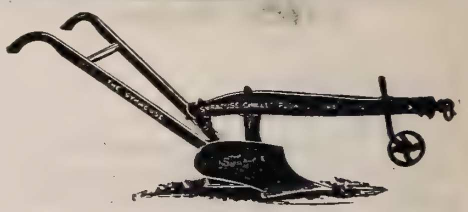
STEEL MOLDBOARDS AND LANDSIDES.



This is the lightest draft sulky plow on the market. Will plow on sidehill or level ground and leaves no dead furrows. We believe this is the only sulky that will do satisfactory work on all kinds of soil and on hill or level farms. As shown in cut two plows are used (one only being in use at a time). Throwing the plows in and out of the ground is done by the team while the operator has control of the width of furrow with his feet, leaving both hands free to handle the team. The wheels always stand perpendicular and the plows level. This tool is designed for New England farmers and has stood the test for ten years. We have sold hundreds of them. Cuts 3 to 9 in. deep, 11 to 16 in. wide; wt., 556 lbs.

Price, $45.00. Disc. for Cash, $3.00.

Syracuse No. 52 and 53 One-Horse Plow.



No. 52 is a medium size one-horse plow, with chilled moldboard and wheel just the size for general garden work. No. 53 is same style of plow, only larger. Can be used as a light two-horse plow for plowing stubble land.

No. 52 cuts 3 to 5 1-2 in. deep, 9 to 11 in. wide wt., 70 lbs.

List Price, with wheel, $8.00.

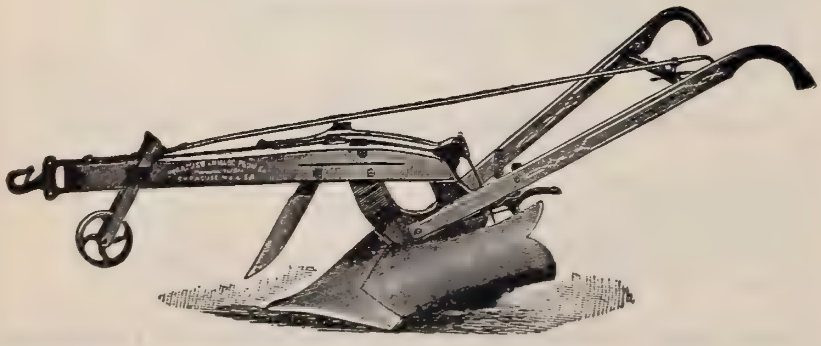
No. 53 cuts 3 to 6 in. deep, 9 to 12 in. wide; wt., 76 lbs.

List Price, with wheel, $9.00.

Discount for cash on either 50 cts.

Syracuse No. 69 Plow,

With Wheel, Wood Beam.



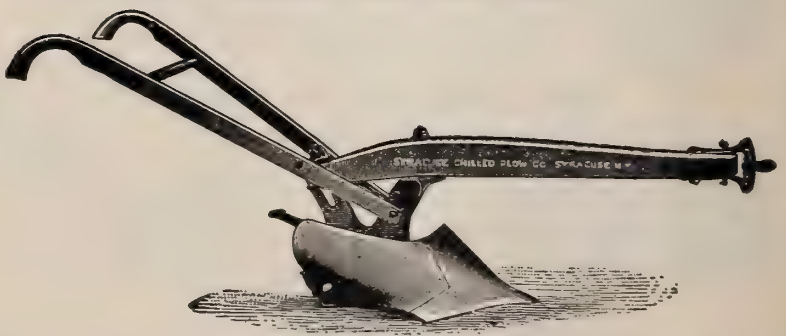
This plow is similar to the No. 60 excepting the beam, which is made of two pieces of wood and has chilled moldboard, either cutter or jointer, wheel and shifting clevis. Cuts 4 to 6 in. deep, 10 to 14 in. wide; wt., 130 lbs.

List Price, ... **$14.00.**

Discount for **Cash**, $2.00.

Syracuse No. 36

One-Horse Wood Beam Plow.

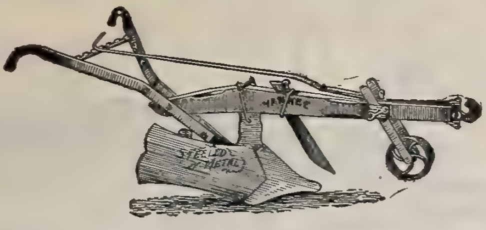


This is a light wood beam one-horse plow designed for plowing gardens and furrowing out. Has a patent foot latch, cast moldboard and wheel. Cuts 3 to 5 in. deep, 7 to 8 in. wide; wt., 71 lbs.

List Price, with wheel, ... **$7.50.**

Discount for Cash, 50 cts.

The Yankee Swivel Plow for one or two horses.

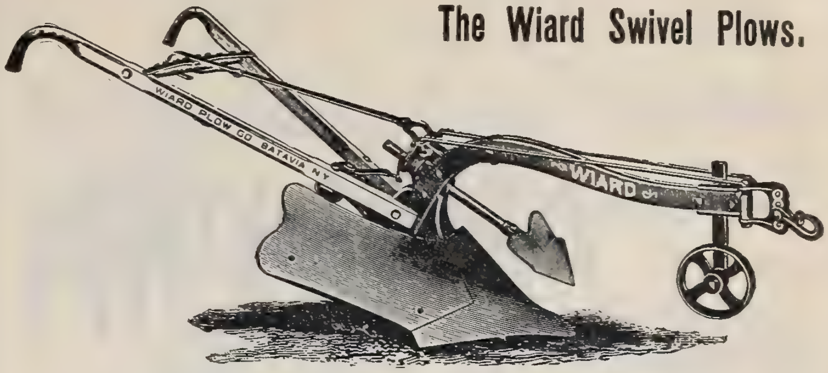


This plow has a patent shifting clevis, foot latch, wheel and cutter. The moldboard is steeled metal, which is very hard and will polish in nearly all soils. They are painted bright vermillion and are a very nice built plow. We We have two sizes for one horse, three for two horses, and one for three horses.

Number of Plow.	Description.	With Wheel.	Wheel & Cutter.	Weight, full Rig.
00 H	Small One Horse, ...	9.25	10.25	75 lbs.
0 H	One Horse, ...	9.50	10.50	85 "
1 H	L'ge 1-horse or l'ht 2-horse,	12.00	13.50	105 "
2 H	Medium 2-horse, ...		15.00	117 "
3 H	Large 2-horse, ...		16.00	125 "

Discount for cash $2.00 from list.

The Wiard Swivel Plows.

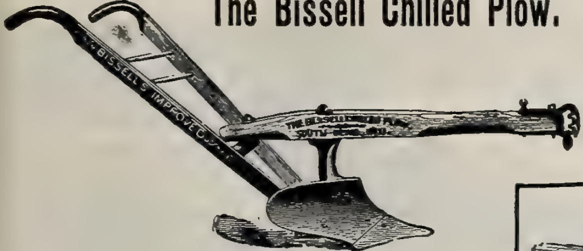

WIARD PLOW CO BATAVIA N.Y.
WIARD

We carry a full line of these plows and they have a great many friends. Rigged either with Jointer or Straight Cutter and Wheel, steel and wood beam and shifting clevis. They are painted green.

Number.	Description.	Plain.	Wheel and Cutter or Jointer.	Weight full Rigged.
115x	Light two-horse iron beam cast moldboard, ...	$11.00	$14.25	116 lbs.
140	Medium two-horse wood beam, cast moldboard	9.00	13.25 Wheel.	133 lbs.
21	One-horse wood beam, ...	7.50	9.25	77 lbs.

Discount for cash, $2.00 from list.
Steel Moldboard. $1.50 extra.

The Bissell Chilled Plow.



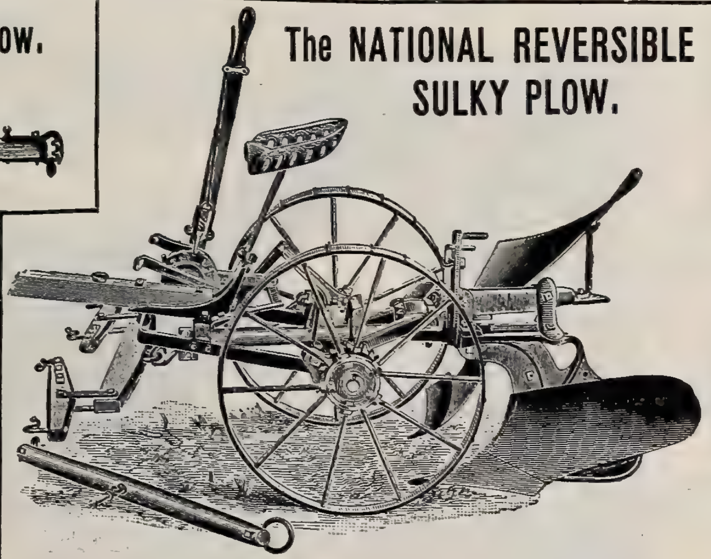
All parts interchange with the Oliver. This plow has a chilled moldboard, extra high standard, which prevents clogging in weeds or trash. It is our best one-horse landside plow.

PRICES.	List Price.
No. A, light one-horse, . . .	$4.50
No. B, medium " . . .	6.00
No. 10, large " . . .	7.00

Discount for Cash, 50 cts.

The above prices are without wheel; if wheel is wanted add $1.00 net to above prices.

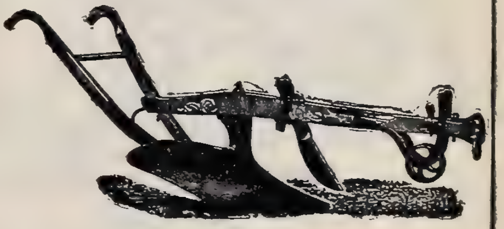
The NATIONAL REVERSIBLE SULKY PLOW.



This plow works equally well on sidehill or level land. As with the Syracuse two plows are used, both fastened to one beam. The plows are thrown in and out of the ground with the foot, making it a very easy plow to operate. A boy 12 years old can handle it easily. There are few farms in New England where a Sulky plow cannot be used to a good advantage. Price includes extra set of points, neck-yoke and evener.

List price, $45.00. Discount for cash, $4.00

The Doe Cast Iron Plow.

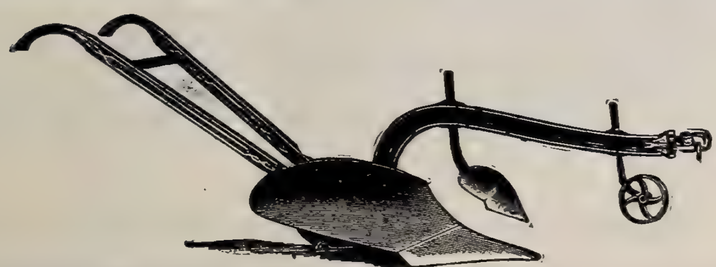


A good general purpose plow, designed for all kinds of garden work, wood beam, cast moldboard and point.

Number of Plow.	Description.	Plain.	Wheel and Cutter.
E 0	Medium 1-horse,	$5.00	
E 1	Large 1-horse,	6.00	
E 2	Light 2-horse,	7.00	
E 3	Medium 2-horse,	8.00	10.75
E 4	Two or 3-horse,	10.00	12.75

Discount for cash 50 cts. from list.

Syracuse No. 31 and No. 32 Two-horse Landside Plow



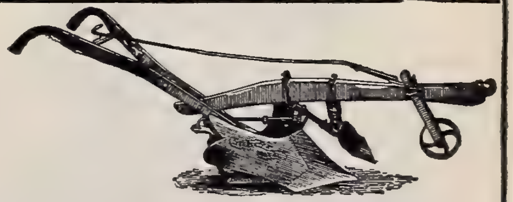
These plows have a steel moldboard and wheel, straight cutter or jointer. This is the same plow used on the double sulky with the addition of a pair of handles, and no better plow was ever made.

No. 32 cuts 5 to 7½ in. deep, 10 to 13 in. wide; weight 103 lbs
List Price, $15.50

No. 31 cuts 5 to 8 in. deep, 12 to 15 in. wide; weight 108 lbs
$List Price, 16.00

Discount for cash from either of the above $3.00.

The Arlington Swivel Plow.



The Arlington Plow has become a favorite in many sections. They are made with Steel Shifting Lever with Clevis, also Patent Spring Foot Latch.

Moldboards are made of Patent Steeled Metal, and all castings nicely polished. The beam and handles are made from selected stock, neatly striped and varnished.

The general neatness of appearance, light weight, and exceptionally good work in the field, whether on flat land or hillside, commend them to all desirous of handling a perfect plow.

Description of Sizes.

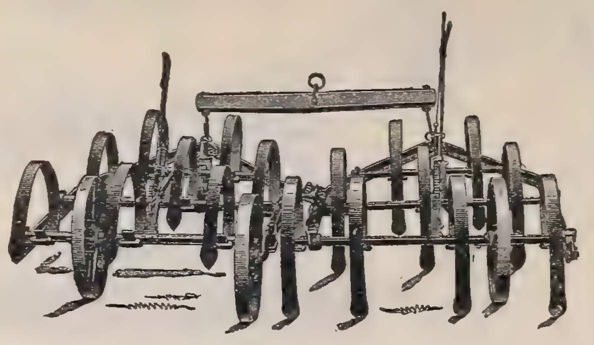
No. 30 turns a furrow 13 to 16 inches wide, 6 to 8 inches deep. Weight 135 lbs.
No. 29 turns a furrow 12 to 14 inches wide, 5 to 7 inches deep. Weight 125 lbs.
No. 27 turns a furrow 8 to 11 inches wide, 4 to 6 inches deep. Weight 85 lbs.
No. 27 is designed for one horse, which walks in the furrow.
No. 26 is a light one horse plow with Steel Moldboard, horse walks in furrow, ... Weight 65 lbs.

Prices.

No.	With Wheel.	Wheel and Cutter.	Wheel and Rolling Caster Coulter.	Wheel and Jointer.
30	$13.50	$15.00	$16.00	$15.50
29	12.50	14.00	15.00	14.50
27	9.00			

Discount for cash $2.00.

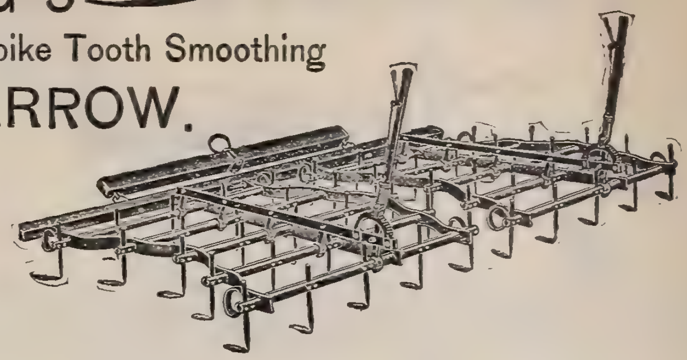
THE BAY CITY SPRING TOOTH HARROW.



This harrow has all the good points of other low down spring harrows and a great many improvements. The frame is made of channel steel, making it very rigid. The teeth are held in place with two bolts. Excepting the Yankee this is the best Spring Harrow on the market, being made entirely of steel.

List price, 15 teeth, **$16.00.** Dis. for Cash $2 00

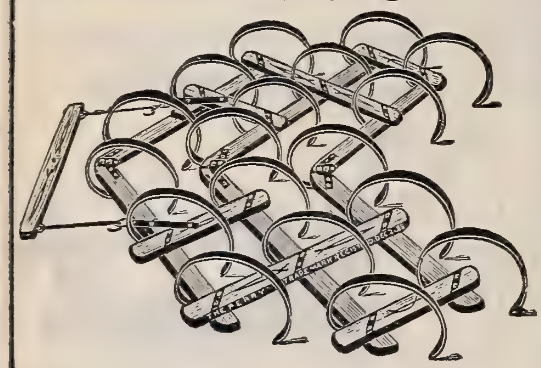
BIG 5 Spike Tooth Smoothing HARROW.



This harrow is designed as a leveling harrow, and for covering all kinds of grain and grass seed. Is also used largely for cultivating corn just after it comes up. The teeth are adjusted by means of a lever, and can also be thrown up from the ground and harrow transported to and from the field on the shoes at the end. Each tooth is held in place by two bolts (nearly all others have but one), and the entire harrow is made of steel.

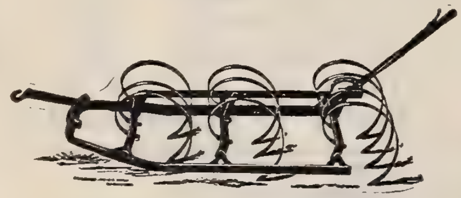
List price, 60 teeth, **$14.00.** Discount for cash, **$3.00**
List price, 50 teeth, **$13.00.** Discount for cash, **3.00**

The Original Perry Spring Harrow.



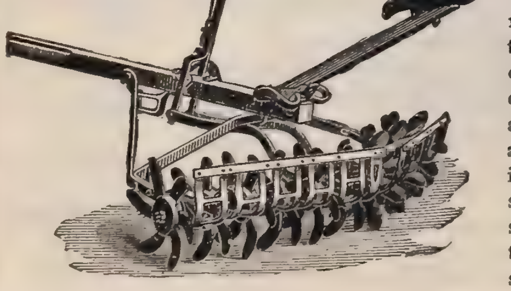
This is the first Spring Tooth Harrow ever offered for sale, and it has many friends today. For durability, it is equal to any harrow made. The wood frame is lined with carbon steel, bolt heads protected, teeth cannot get loose.
List price, **$11.00.** Discount for cash, $1.00.

The Syracuse One Horse Spring Harrow.



We have sold this harrow for the past four seasons and it has given perfect satisfaction. It has ten spring teeth, oil tempered, and is adapted for all kinds of work.
List price, **$10.00.** Discount for cash $1.00

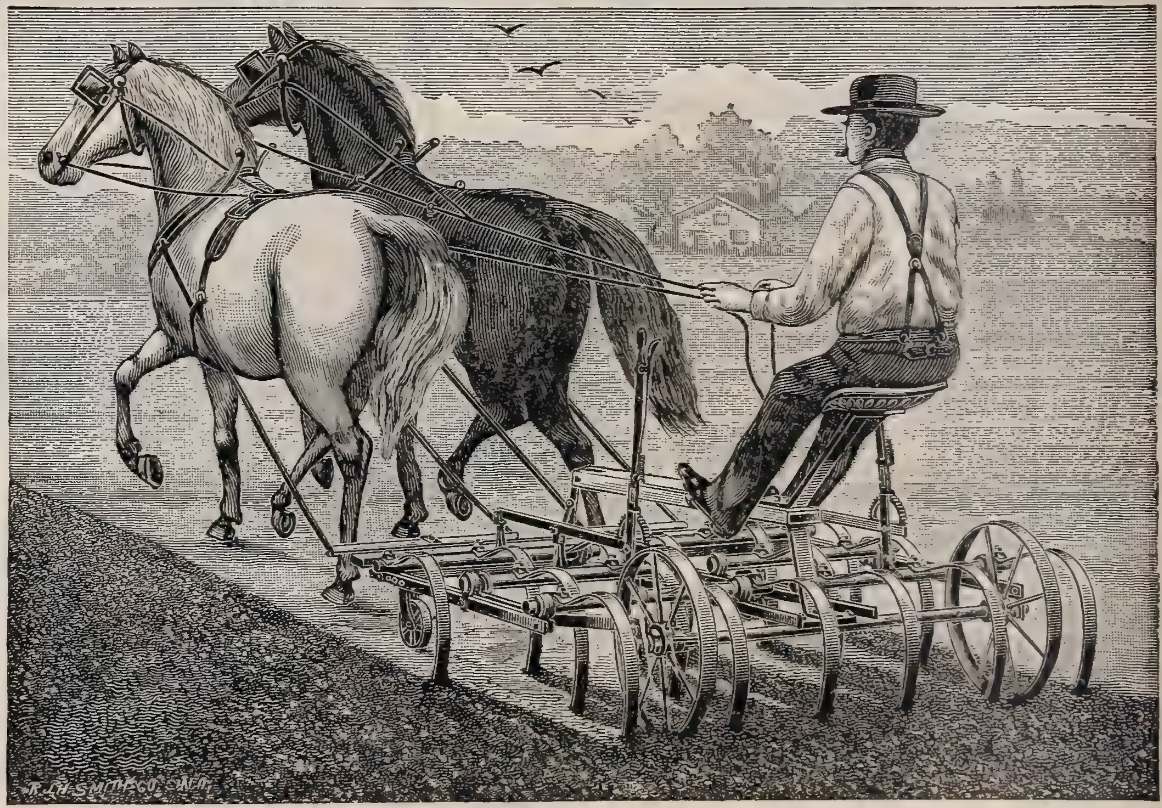
Morgan Spading Harrow.



The name "Spading" refers to its action on the soil. The action of each cutter is like that of a small spade, lifting and turning the soil for a depth of four to six inches. The blades, or spades are made from spring steel; in operation vibrating and shaking off sticky soil.
List price, complete with whiffletrees, evener, yoke, and scrapers, **$25.00.** Discount for cash, $5.00.

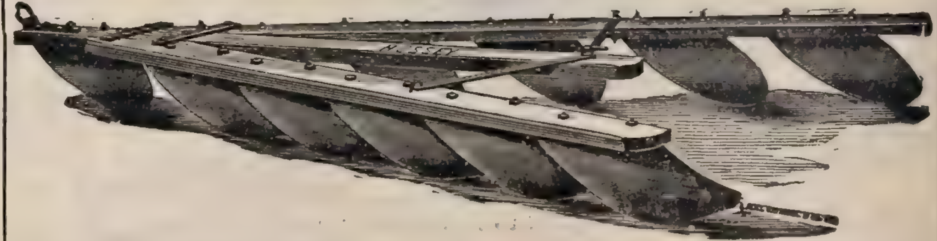
The Yankee Spring Tooth Riding Harrow.

The first and only Spring Tooth Harrow on Wheels upon which a man can ride with the same ease and comfort as in a buggy.



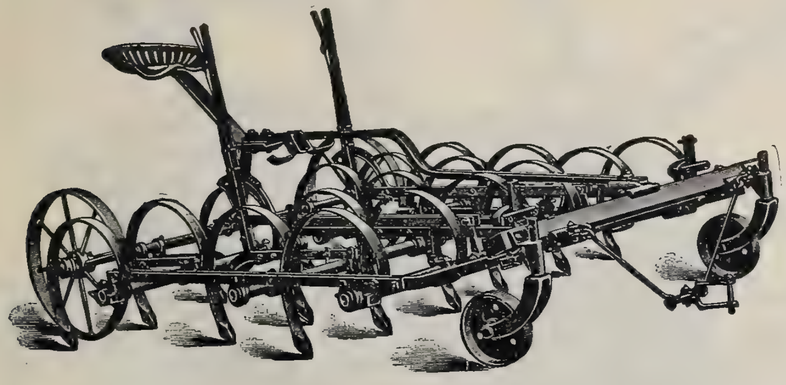
This is the best and only practical Riding Spring Tooth Harrow made, and equal to any riding harrow on the market sold for forty-five dollars; and it is not to be compared with ordinary spring harrows which retail from fifteen to eighteen dollars. The wheel attachment is entirely different from any other harrow, and it is so attached that the driver does not get any of the motion or jar of the harrow. It is next to impossible to clog it, as the frame runs about a foot from the ground. The front end is supported by either shoes or castor wheels. Shoes are preferable, especially in hilly or rolling ground, but on level ground wheels are best. Size of wheel, "20 INCH." Where nothing is said, we use our own judgment which to send. Large descriptive circulars mailed on application. **Price, $18.00. Disc. for Cash, $1.00.**

SHARE'S STEEL TOOTH HARROW.



This is a good cheap harrow, used for one or two horses. Teeth are made of pressed steel and always hold their shape. List price: Share's Patent A Harrow, 7 teeth, $7.00; 9 teeth, $8.00; 11 teeth, $9.00; 13 teeth, $10.00. Discount for cash, 50c.

THE EXCELSIOR
Spring Tooth Harrow
WITH RIDING ATTACHMENT.

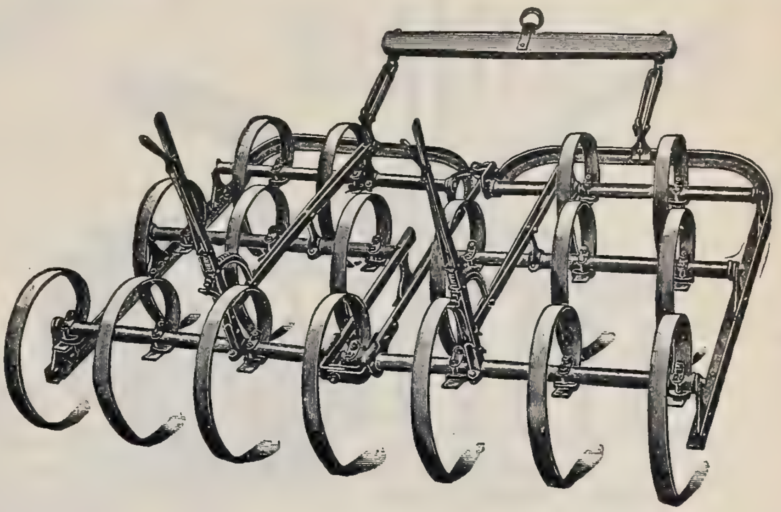


This harrow is similar to the Yankee but made a little lighter, yet strong enough to stand any ordinary usage. It has the same high seat with handy lever within easy reach of the operator, and the frame running high up from the ground makes clogging next to impossible.

* * *

List Price, $16.00 Discount for Cash, $1.00

THE ABERDEEN
Spring Tooth Lever Harrow

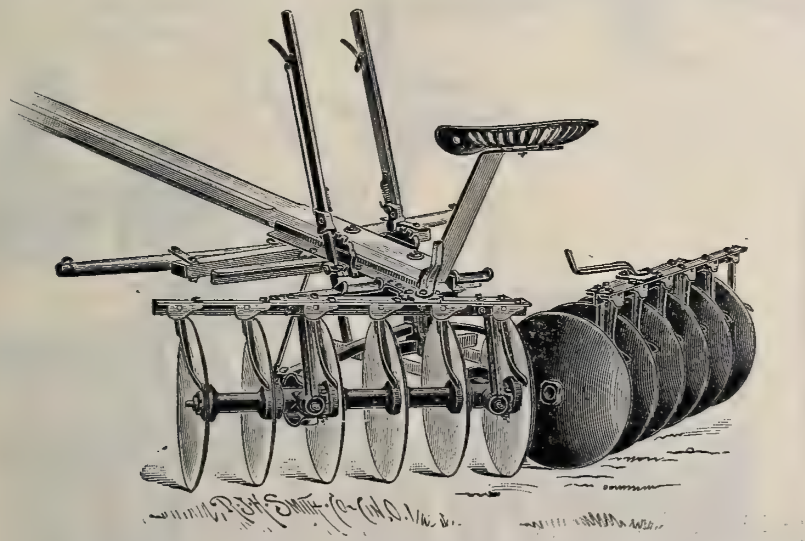


Having some calls for a spring harrow with shoes instead of wheels, we have added to our already large line of harrows this make, and while it has to be hauled to and from the field on the shoes instead of wheels, we believe it will do just as good work and is as durable as any harrow on our list.

* * *

List Price, 15 Teeth, $14.00 Discount for Cash, $1.00

THE STANDARD
"Model B" Disc Harrow.



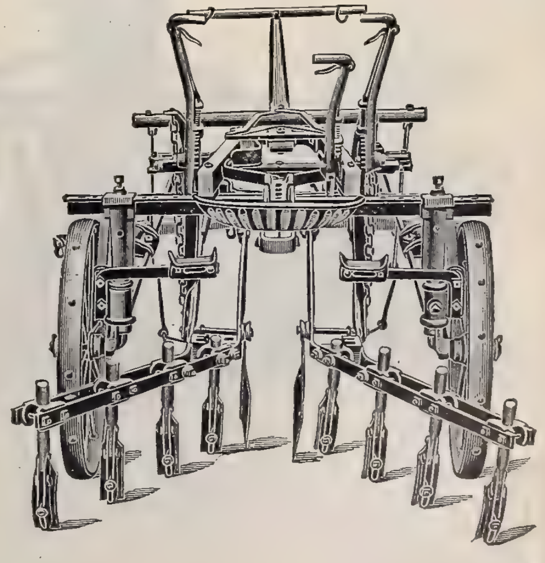
. This harrow is similar in construction to the Reliable and we catalogue it as we find it has a great many friends in New England. We have a good stock on hand; also parts for same. The discs are 16 inches; and at price quoted we furnish whiffletree, evener, yoke and scrapers.

* * *

List Price, $22.00 Discount for Cash, $2.00

THE STANDARD
Pivot Axle.. Riding Cultivator

This is a powerful tool and so constructed that it is capable of doing a large range of work, and is very handy for cultivating all crops planted in rows. The pivot axle is very handy on side hills for holding the tool up to its place. Extra teeth may be added which makes it into a riding harrow. The wheels may be adjusted in width from 38 to 54 inches for different width rows.

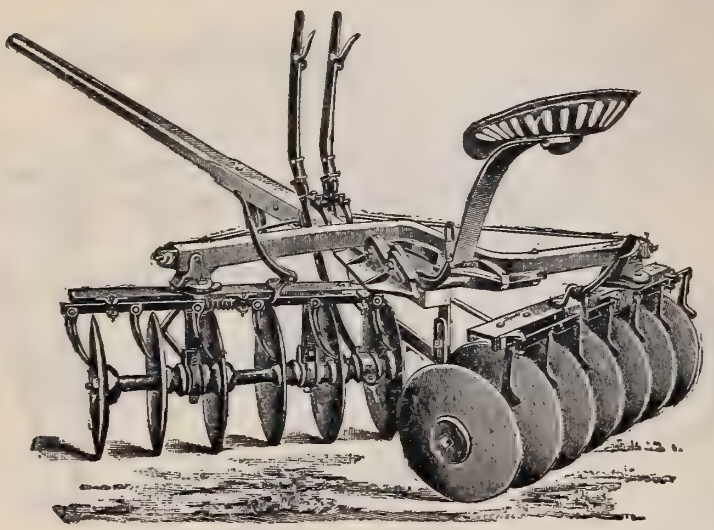


* * *

List Price, $28.00 Discount for Cash, $2.00

The Victor OVER-LAP DISC HARROW.

With Ball-Bearings. **13 16 in. Steel Discs.**

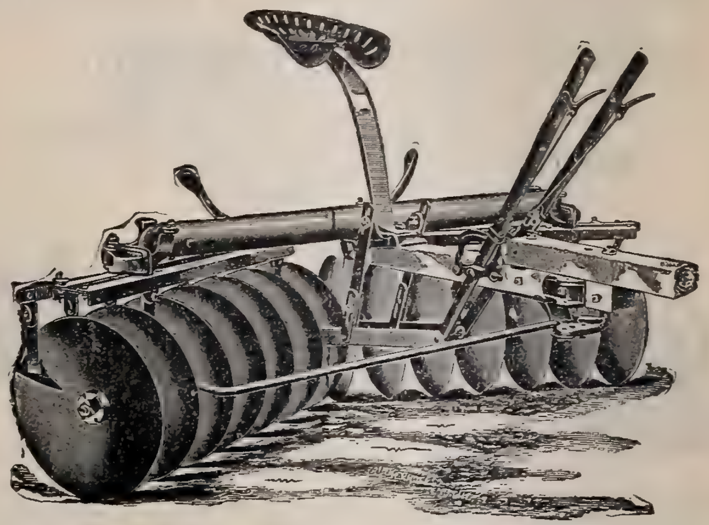


This is the latest and best thing for a Disc Harrow. As shown in the cut you will see that the right-hand gang has 7 discs instead of 6; the extra one laps over and pulverizes the centre, which all other harrows leave untouched. This has been a great disadvantage and has puzzled all manufacturers until now. It runs on ball-bearings, is made entirely of steel, and is furnished with whiffletrees, evener and yoke.

List price, $24.00 Discount for cash, $2.00.

The Reliable DISC HARROW.

12 16 in. Steel Discs.

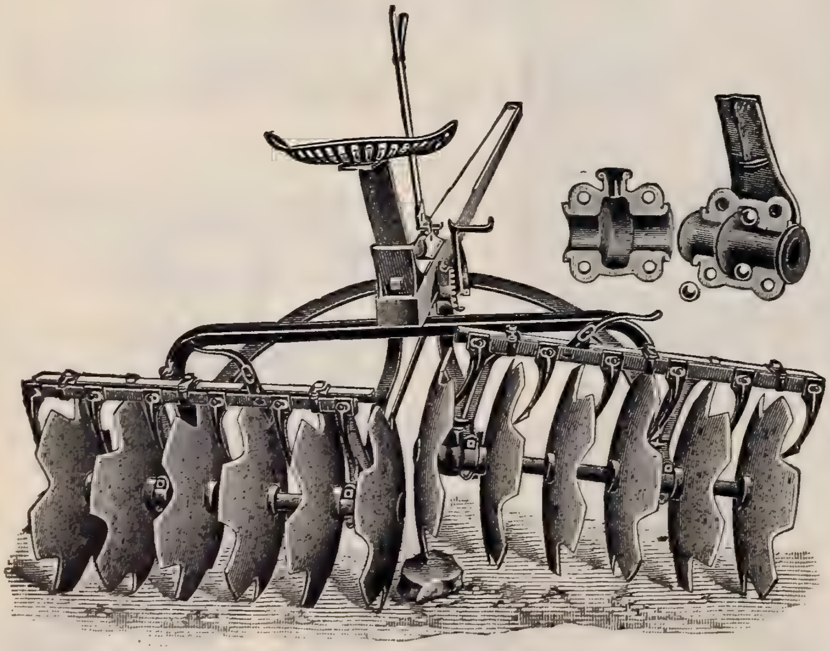


This harrow is everything the name implies—perfectly reliable. It is made expressly for us, and as we buy them in Car Lots we are able to sell them at a much lower price than this grade of harrows are sold for. It runs on ball-bearings, has two levers for angling the discs (a great advantage on side hills). It is made, excepting the pole, entirely of steel, and we furnish at price quoted whiffletree, evener, scrapers and yoke.

List price, $21.00. Discount for cash, $2.00.

All Steel Cutout Harrow

12 16 in. Steel Discs.

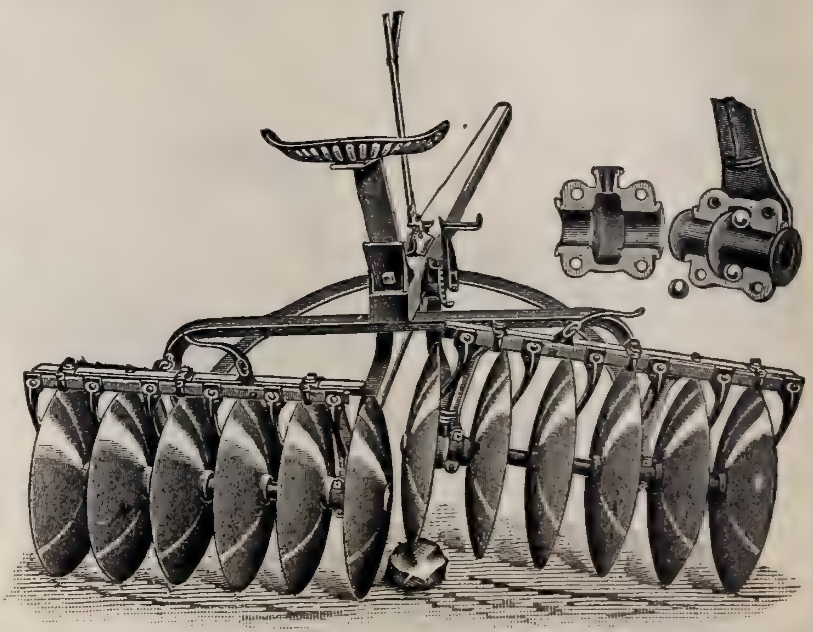


This harrow is same construction as the All Steel Flexible, but fitted with cutaway instead of round discs which, being cut in, allows them to enter the ground deeper, and is a very desirable harrow to work in bushy land. It is fitted with ball-bearings and, excepting the pole, is made entirely of steel; has the adjustable spring for putting any amount of pressure on the inside end of the discs. No other Cutaway Harrow made has this improvement. Arbors run on ball bearings.

List price, $22.00 Discount for cash, $2.00.

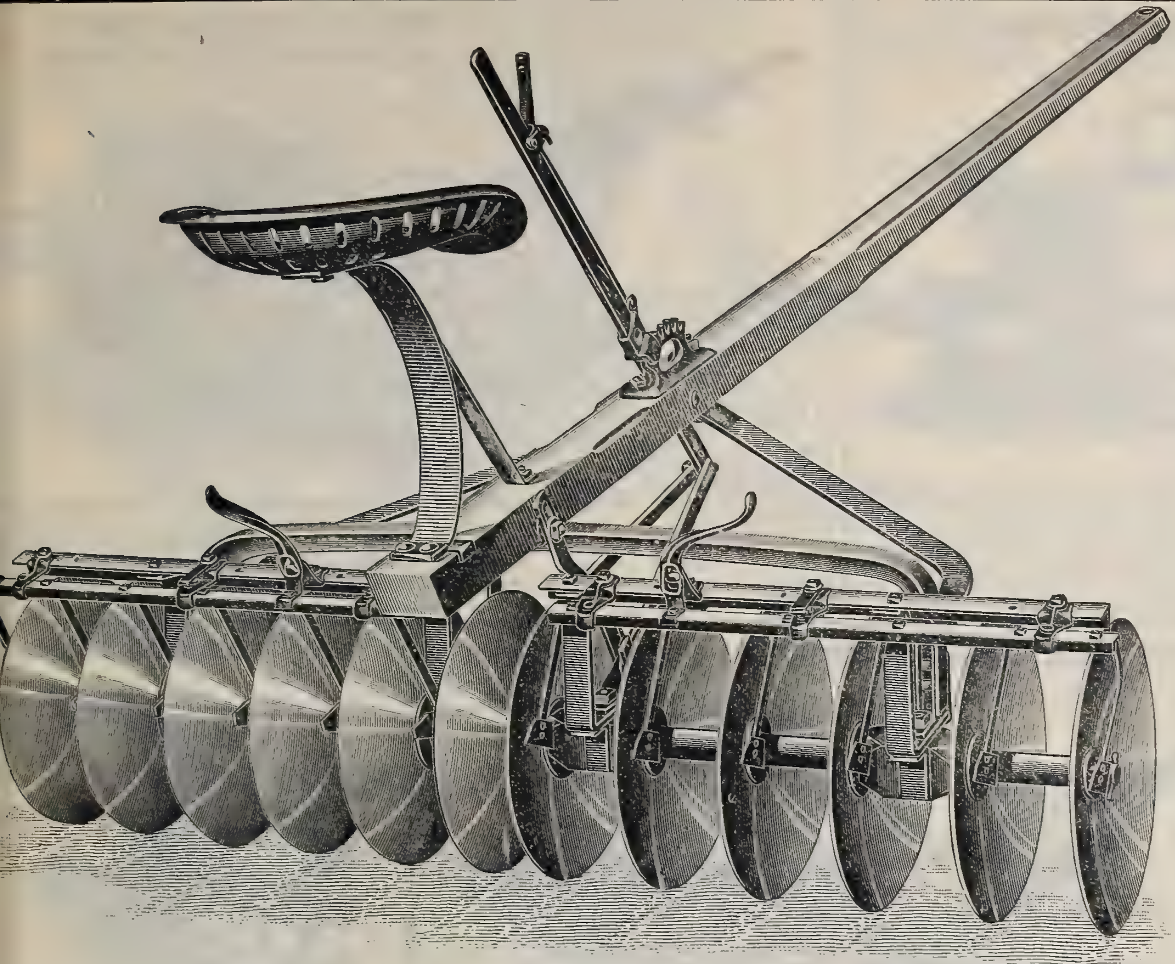
ALL STEEL Flexible Disc Harrow.

12 16 in. Steel Discs.



This harrow is provided with matchless new combination cone boxes and single large ball-bearings. The only Disc Harrow having independent adjustable spring pressure upon the inner end of each gang of discs, allowing any amount of pressure to be thrown upon the inner ends of the gangs by the foot of the operator. This is the simplest and easiest harrow to operate on the market. By removing two bolts it can be taken apart and handled easily by one man.

List price, $22.00. Discount for cash, $2.00.



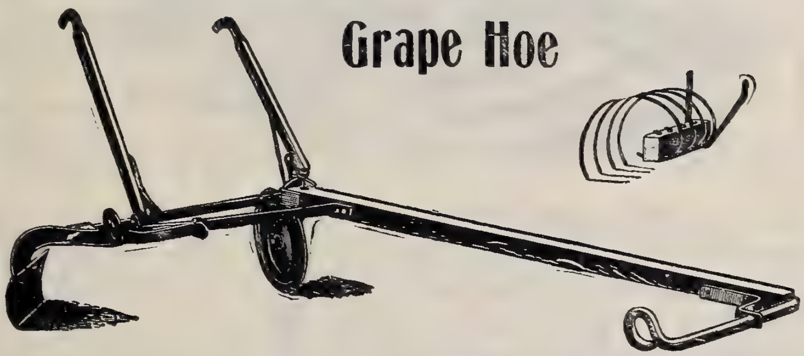
The Sterling Disc Harrow

The Best Low Priced Disc Harrow on the Market.

THIS Harrow, as you will see, is similar to the All Steel Flexible shown on another page, the principle difference being in the flexible part.

This harrow does not have the patent foot lever and long spring, but all other parts are equally as good, and we offer it at a price that places it within the reach of all. Complete with whiffletree, evener, yoke and scraper, $18.00. Discount for Cash, $1.00.

Grape Hoe



A VERY useful Horse Hoe to use in vineyards and orchards; will pay for itself in one season; a great labor saver. Can be used with one horse adjustable to any width of row. A great labor saver in grapes and berries; can be used when the foliage is on and when it is impossible to use any other tool. Highly recommended by Prof. S. T. Maynard of the Amherst College. Price, as shown in cut, $17.00; without cultivator attachment, $12.00. Discount for cash, $1.00.

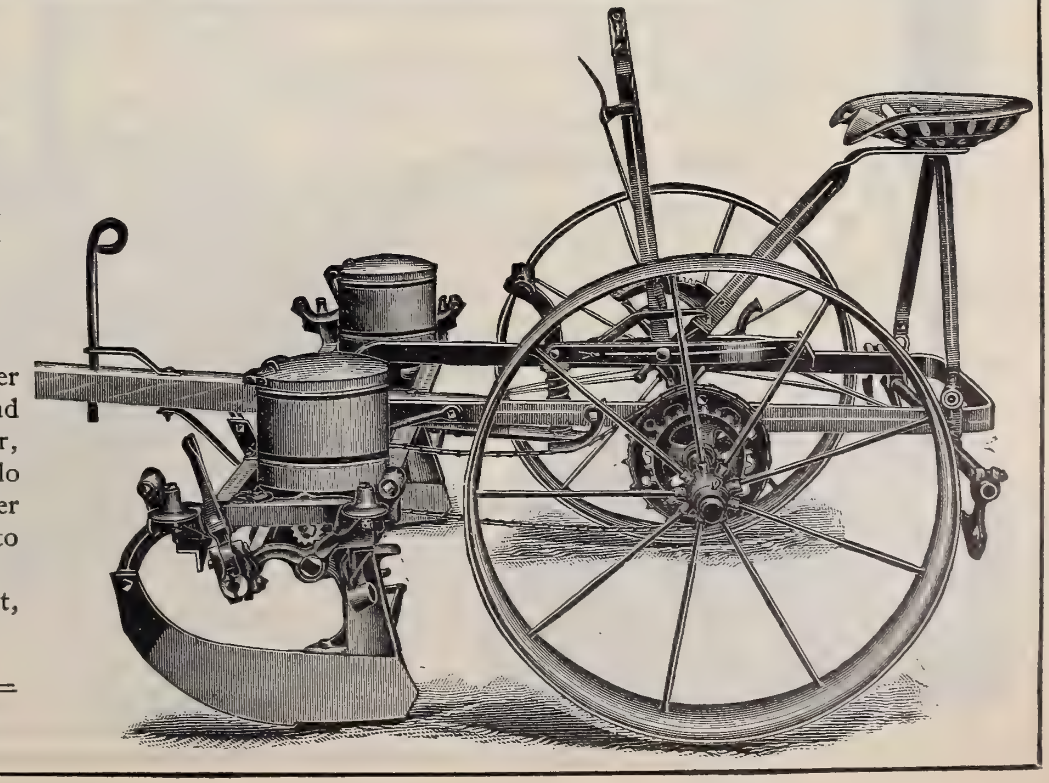
The Tiger No. 4

Two Row Corn Planter

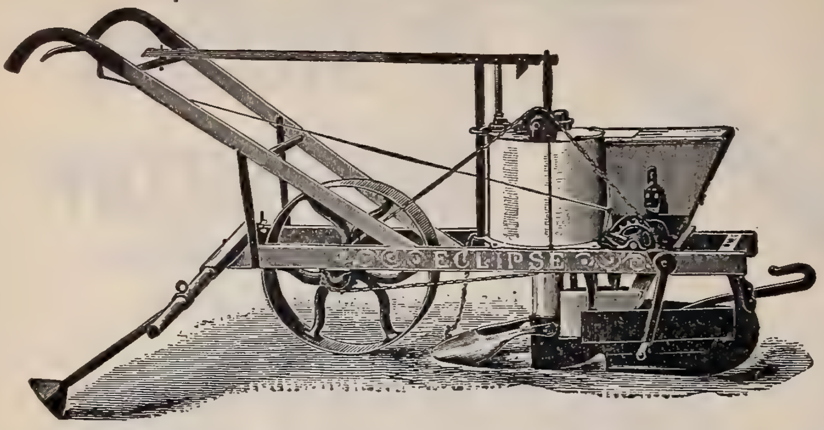
With or Without Fertilizer Attachment.

THIS is a neat and strong two row corn planter and used by many on land free from stones, and when planting is mostly done without fertilizer, although it has a fertilizer attachment which will do very good work if the fertilizer is dry. The planter can also be furnished with a check row attachment to plant for cross cultivation.

Price, plain, $30.00; with Fertilizer Attachment, $40.00. Discount for Cash, $3.00.



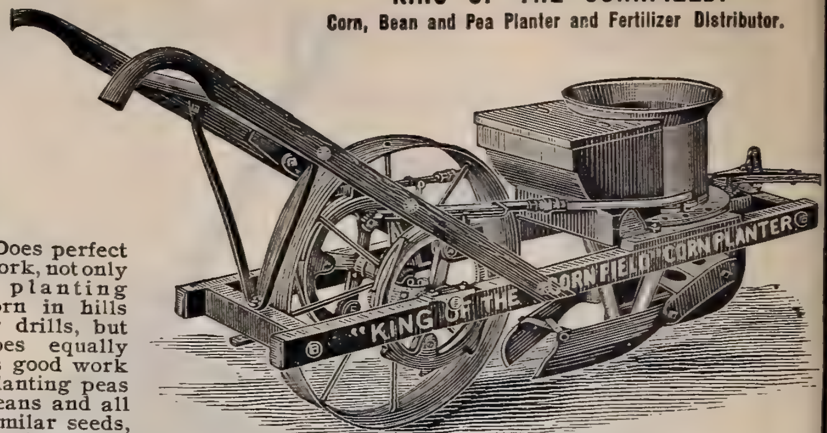
Eclipse Corn Planter and Ferttilizer Distributor.



Plants field or ensilage corn, beans, peas or beet seeds in hills, drills or checks; it will drop 6, 12, 24 or 36 inches apart. By scattering pumpkin seeds in with the fertilizer in filling hopper will place seeds in hills when planting corn. It accurately distributes from 50 to 450 lbs., as desired, of commercial fertilizer, wet or dry, in the rows of hills. first drawing moist earth on the seed before the fertilizer is dropped each side of the seed, and all is covered to a uniform depth. Price complete, **$25.00**; discount for cash, **$5.00.**

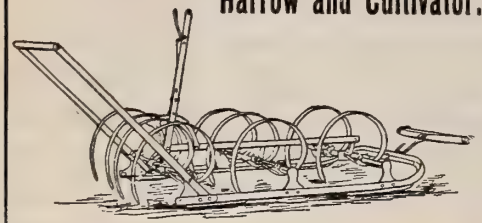
"KING OF THE CORNFIELD."

Corn, Bean and Pea Planter and Fertilizer Distributor.


"KING OF THE CORN FIELD CORN PLANTER

Does perfect work, not only in planting corn in hills or drills, but does equally as good work planting peas beans and all similar seeds, putting in the fertilizers as well, in any desired quantity, or the fertilizer may be stopped off altogether, if desired. Another great feature in this machine, corn and beans may be planted at the same time in the same row, the beans half way between the corn, or 4½ or 9 inches from corn, as desired. The fertilizer may be put with the corn and left out of the beans, if desired to do so. List price, **$25.00**; discount for cash, **$5.00.**

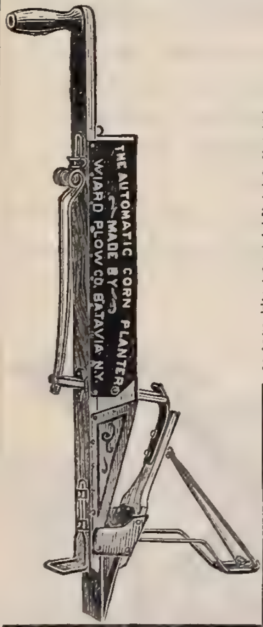
The Badger One-Horse Spring Tooth Harrow and Cultivator.



This is one of the handiest tools a farmer can have. It will do work equally as well as a two-horse harrow, having the same teeth, only trifle smaller. We offer this harrow at a very low price.

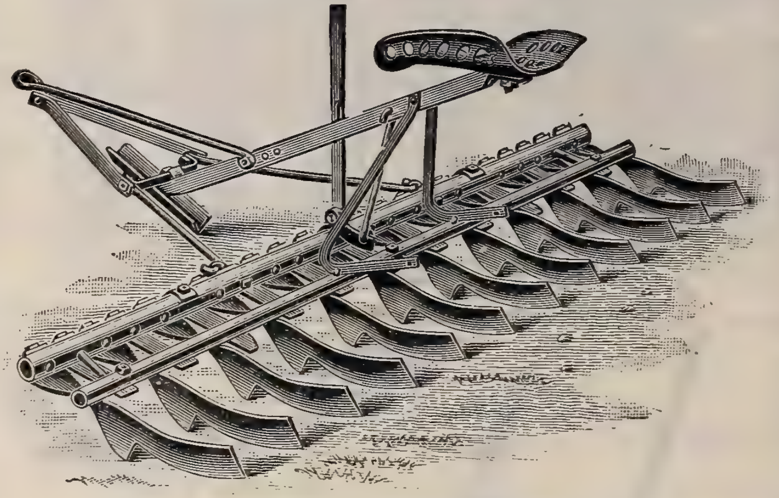
PRICE, - - $9.00

Automatic Hand Corn Planter.



This tool is manipulated by one hand, and is used as a person would handle a walking stick. It will plant as fast as a man can walk. It is well made and perfectly simple in construction. Very handy for replanting, and for small gardens. List price $3 00, net price, $2.00.

The "Acme" Pulverizing Harrow, Clod Crusher and Leveller.



No. 17. "Acme" Harrow. The Best General Purpose Size.

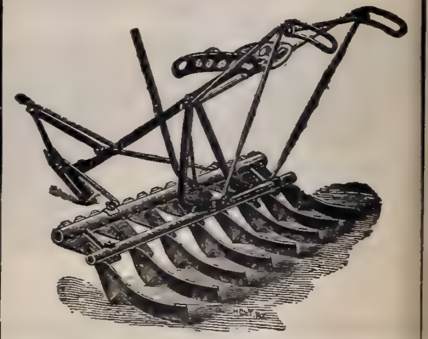
A general-purpose harrow that will crush, cut, lift, turn, smooth and level the soil to perfection, all in one operation. While pre-eminently adapted for heavy, stubborn land, it can be adjusted, by means of the levers and runners, to do perfect work on the lighest soil. It cuts the entire surface without disturbing sod or trash that has been turned under by the plow. It prepares a perfect seed bed, and also covers seed in the best manner. The draft is reduced to a minimum. Being made entirely of cast steel and wrought iron, it is practically indestructible. Nothing but the coulters can possibly wear, and these are readily replaced at a trifling cost.

PRICES AND SIZES:

No. 17. Riding Harrow. Two-horse size. 6½ foot cut, with 2 runners for transporting.................................... **$17.00**

Other sizes furnished on application. Write for cash discount.

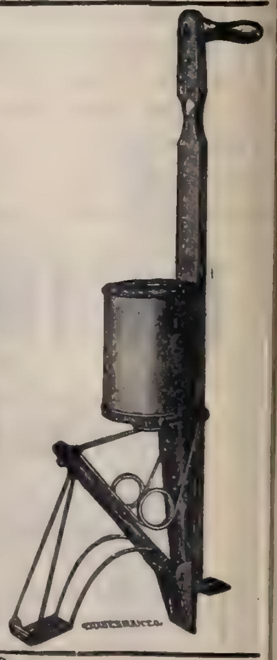
"ACME" One-Horse Harrow.



No. H. Works 4⅓ feet wide, 8 coulters. Price, with seat and lever adjuster, **$15.00.**

No. G. A splendid one-horse cultivator; 7 coulters. Cuts 3 feet wide. Has handles, as shown in cut, but no seat or lever. Price, $9 00.

The American Automatic Corn Planter.



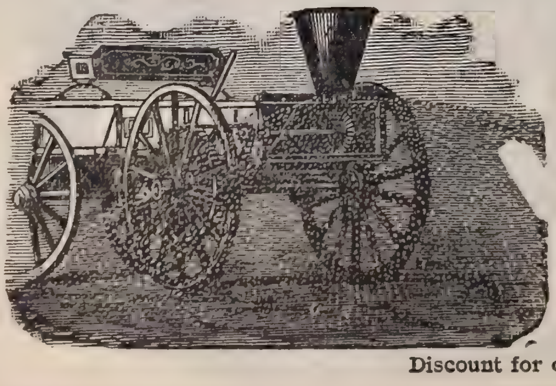
Prevents skips and broken corn. It is bound to drop every time. It hangs the same right handed or left—beginning or end of row. The operator carries no useless weight. It is neat, light and durable, and attractively finished.

A corn crop is planted right when you use the American.

Price, **$1.75.**

Farmer's Friend Seed and Fertilizer Sower.

Attaches to any ordinaay farm wagon, and sows to perfection grass and grain seeds of all kinds and in any desired quantity per acre, 50 to 100 acres a day. It also distributes all dry commercial fertilizers, also ashes, land plaster, lime, etc. It has a positive force feed and an adjustment opening the holes from 1-4 to 1 1-2 inches, which allows the sowing of seeds of any size; the flow can be shut off any where, either on one side or the other, or altogether, as required; it is instantly thrown in or out of gear. Price, complete to attach to wagon, **$12.00.**



Discount for cash, **$2.00.**

THOMPSON'S SEEDER.

For Broadcasting Grass, for Sowing Red Top, Clover, Timothy, and all Mixed Seeds. Light, Strong and Simple.

Sows uniformly the whole length of the hopper, twelve feet. Its simplicity of construction and its accuracy of work in the field places it at the head of all seeders. It has no cam or cog gearing to get out of order. It has a positive motion, and works as freely and easily when sowing as when empty. Seeding is generally done at the time of the year when winds prevail. It is then that the seeders can be used with marked success.

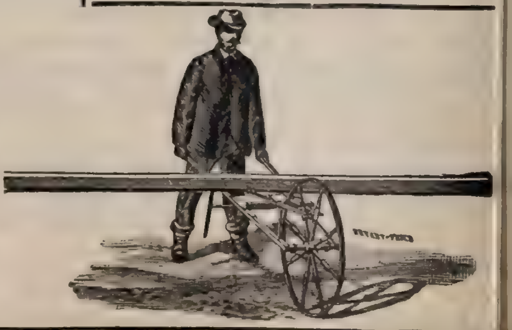
SEEDER No. 5.

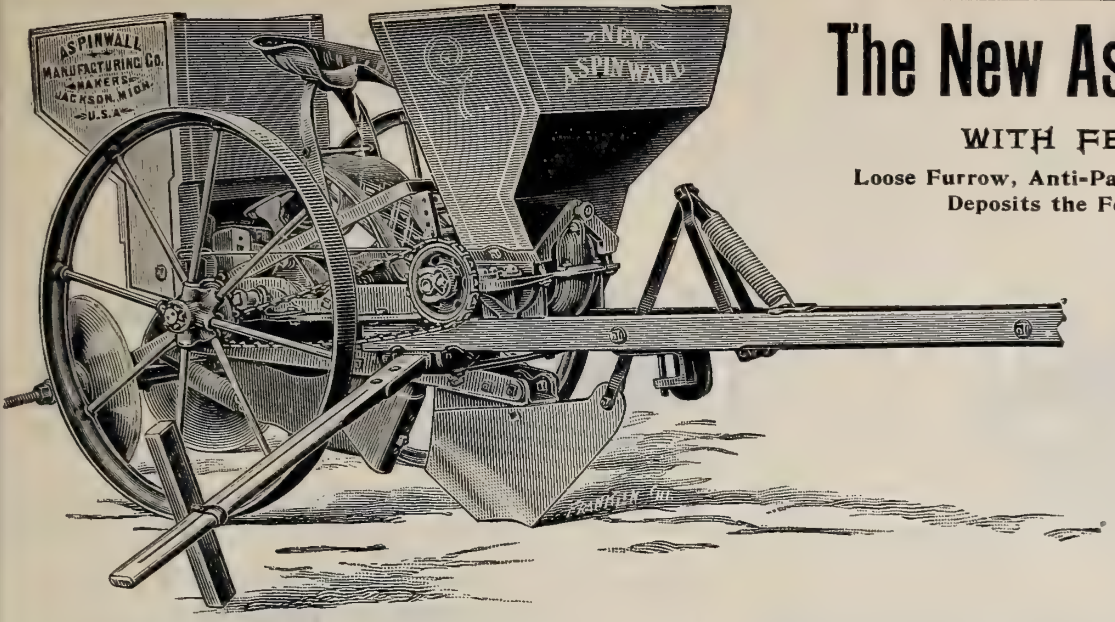
Sows all varieties of Clover, Timothy, Hungarian, Millet, Afalfa, chaffy seeds, like Red Top, Orchard Grass and clean Blue Grass. This style machine is made expressly for New England trade. List price, $10.00; discount for cash, $1.50.

No. 4. Grain Seeder Box, 10 feet. for sowing all kinds of grain. This box fits on to No. 5 Seeder, and with both boxes all kinds of grain and grass seeds can be sown. List price, $5.00, discount for cash, $1.00.

No. 5 Seeder and No. 4 Grain Box,

List price, $15.00; discount for cash, $3.00.





The New Aspinwall Potato Planter

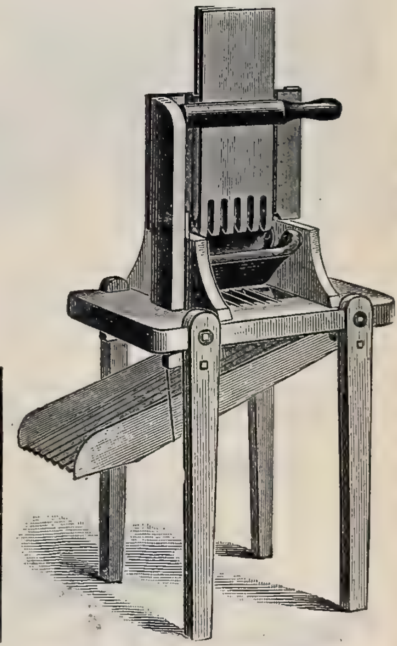
WITH FERTILIZER ATTACHMENT.

Loose Furrow, Anti-Packing Plow. All Parts Automatic and Adjustable. Deposits the Fertilizer Where it Will Do the Most Good.

Provided With Disc Covers if Desired at a Slight Difference in Price.

THE New Aspinwall Potato Planter with Fertilizer Attachment embraces more substantial improvements and desirable features than the most sanguine mind could anticipate. Instead of depositing the fertilizer from the rear of the machine, partially mixing it with the earth as the furrow is being closed, they have transposed the location to the front and arranged the plow to open a deep furrow, where the fertilizer is deposited, being mixed and covered with the earth, putting it underneath and in advance of dropping seed. The potato chute has an adjustable shoe which prevents the earth from filling the furrow and covering the fertilizer more than two inches, or thereabouts, as desired. The potato as dropped is covered, and on each side and underneath the earth is entirely loose, and no packing, in a single instance, can possibly occur. This machine is a great improvement over the old style Aspinwall Planter. List price of planter complete, **$65.00.** Discount for cash, **$5.00.**

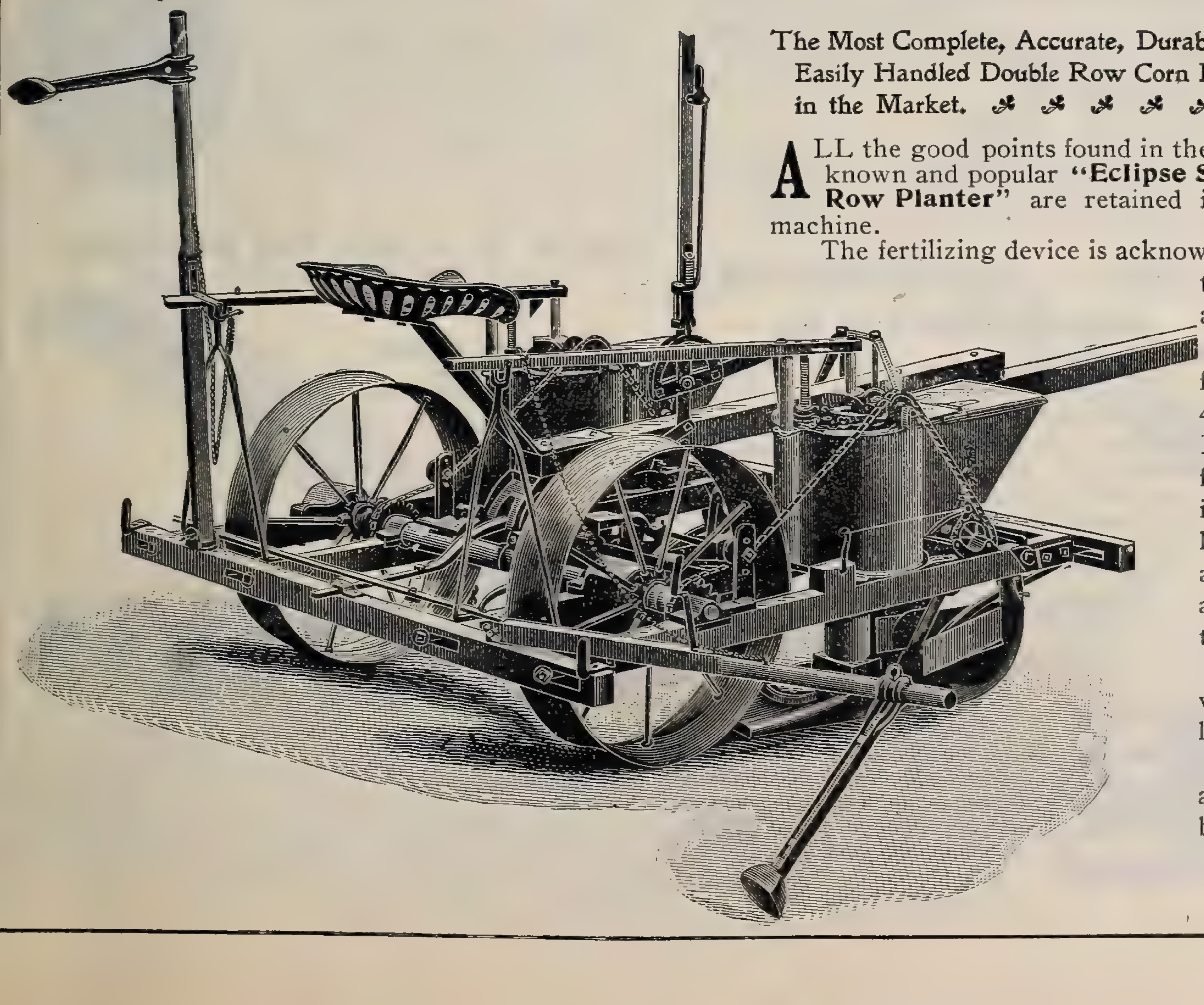
THE ASPINWALL POTAOTO CUTTER.



AN arrangement for the removal of the group of eyes which constitute the seed end—a most desirable feature which is practiced by many of our expert growers. The cutter is easily operated, doing the work of ten persons very successfully. In fact the work of the cutting is as rapid, or more so, than the planting with the Aspinwall Planter, so that one can easily keep pace with the planter. The use of the Potato Cutter certainly effects much saving of labor. The work of cutting enough seed to plant from ten to thirty or forty acres of potatoes is tedious and tiresome, occupying a number of days. It is also an excellent vegetable cutter for cutting all kinds of roots for stock where only a small amount of work is to be done. Price, **$7.50.**

SPECIAL OFFER. We will give one of these cutters **Free** with Planter in place of the cash discount.

Eclipse Two Row Two-Horse Corn Planter.



The Most Complete, Accurate, Durable and Easily Handled Double Row Corn Planter in the Market. ✤ ✤ ✤ ✤ ✤ ✤

ALL the good points found in the well-known and popular **"Eclipse Single Row Planter"** are retained in this machine.

The fertilizing device is acknowledged by all to be perfect. It will distribute from 50 to 600 pounds to the acre.

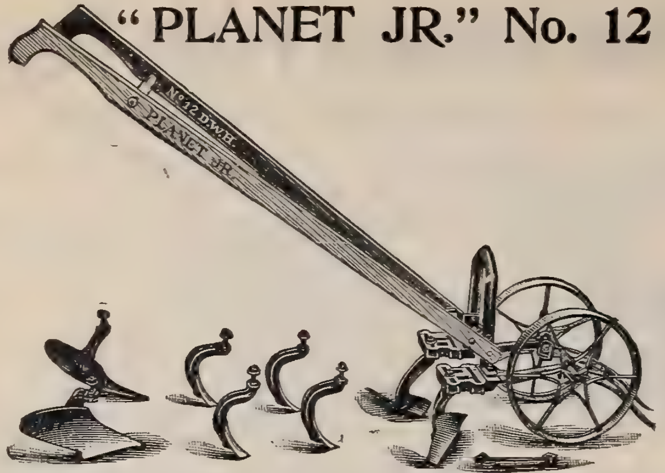
Planters can be adjusted in the frame to make the rows 36, 38, 40 and 42 inches apart. The new Marker Device used for two seasons with perfect success on the single row Eclipse is used on this. One move of the lever throws the machine out of gear and at the same time raises the planter and coverers ready for turning the team at end of rows.

The check is operated with the foot when found desirable to have hills in line for cross cultivation

For those planting 10 or more acres, and farmers that plant for their neighbors, we recommend this machine.

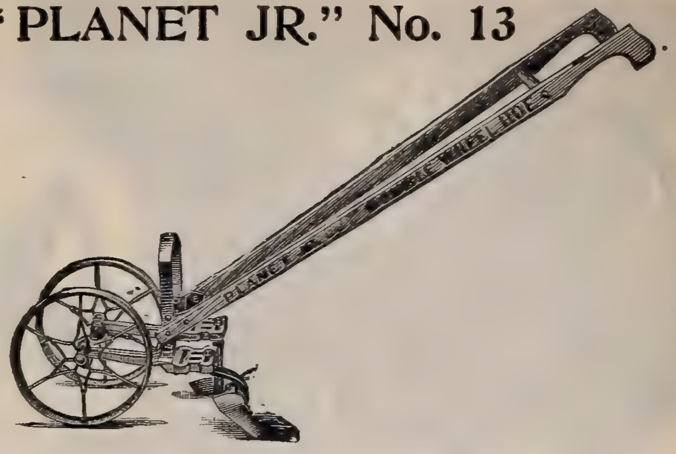
List Price, **$50.00.**
Discount for Cash, **$2.00.**

"PLANET JR." No. 12


No. 12 D.W.H.
PLANET JR.

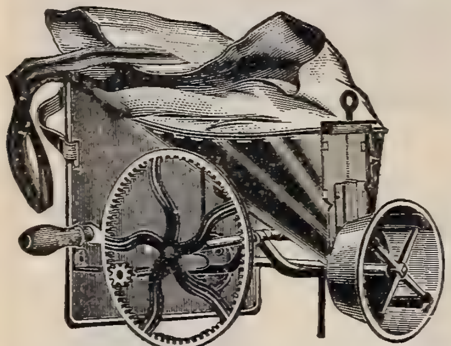
This tool is identical with No. 11, except that it has a less complete equipment, as shown in the cut, but at a correspondingly less price. The set of tools with No. 12 is what gardeners need most, and the rest can be added as wanted. Net price, $6.50

"PLANET JR." No. 13


PLANET JR. DOUBLE WHEEL HOES

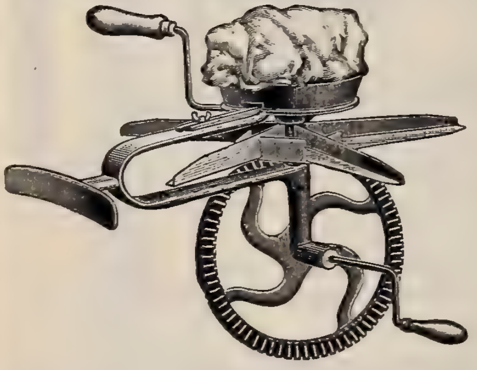
This tool is the No. 11, with 6 inch hoes only, this pair of tools being most generally used at all seasons. Any or all of the No. 11 tools may be added at any time, and are sure to fit. Net price, $4.50.

Cahoon's Improved Broadcast Seed Sower.



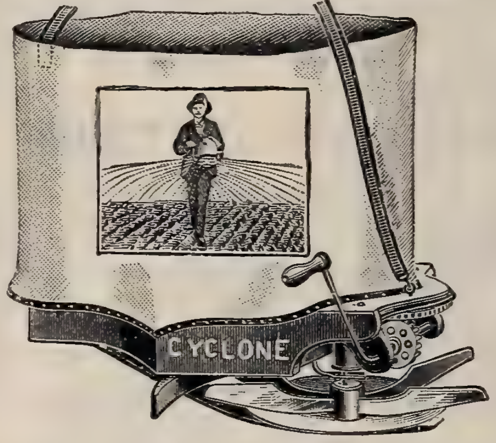
Will sow all kinds of grass and grain seeds from 4 to 8 acres per hour at a common walking gait. Heavy seeds, such as wheat, it will throw 40 feet (20 feet each side of the operator); lighter seeds, of course, will not be thrown so far. Price, $3.75.

Perfection Jr. Broadcast Seeder.



This seeder is similar to the above but made very much lighter and cheaper. It is well worth the money. Net price, $1.25.

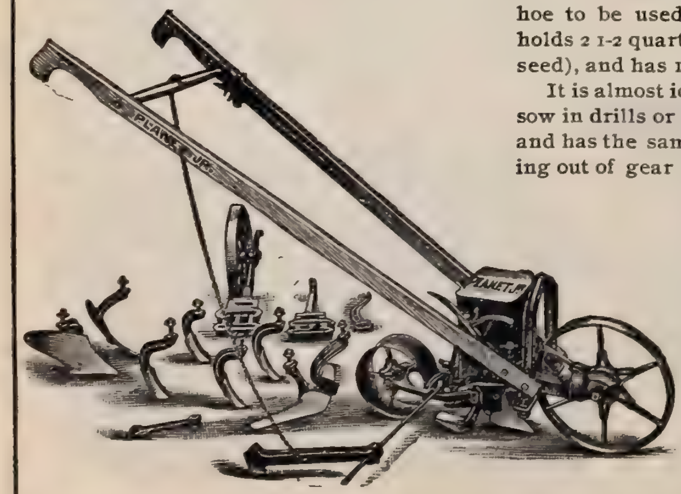
The Cyclone Broadcast Seeder.



This is the cheapest and best of the hand seed sowers on the market, and every one sowing one acre or more of grass seed or grain cannot afford to be without it. Will sow Timothy, Clover, Wheat, Oats, Rye, Buckwheat, Hungarian, Bone Dust, Red Top, Millet, Corn, Cotton, and all other grains and seeds perfectly even, and any desired amount to the acre, and from 40 to 60 acres a day.

The machine is strictly first-class in every respect. We guarantee the seeder to give satisfaction, or money refunded. Net price, $1.50.

Planet Jr. No. 25 Combines Hill and Drill Seeder and Double Wheel Hoe.


PLANET JR.
PLANET JR.

This new combined machine is intended for a class of gardeners who have a large enough acreage of crops for a double wheel hoe to be used to good advantage. Hopper holds 2 1-2 quarts (or about 5 pounds of onion seed), and has 11 1-4 inch wheels.

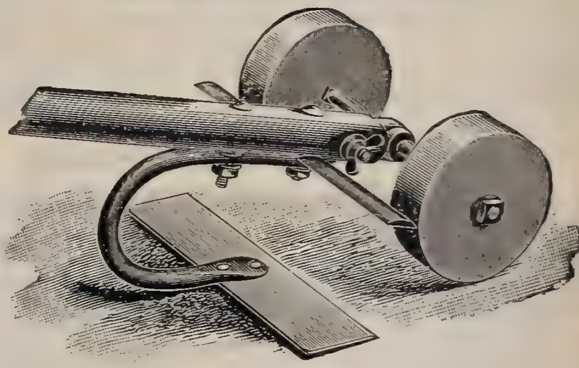
It is almost identical with the No. 4 drill; will sow in drills or hills 4, 6, 8, 12 or 24 inches apart and has the same automatic device for throwing out of gear and the new combined cut-off and seed index, with thumbscrew adjustment.

As a wheel hoe it is identical with the No. 12 double wheel hoe.

The change from drill to wheel hoe takes but a moment, and the entire combination is one we can heartily recommend and guarantee satisfactory.

Net price, $13.00

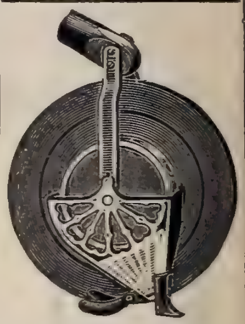
THE SHELDON WHEEL HOE.



A low-priced, but very efficient little implement for flat or scuffle hoeing. Either in gardens, where it cuts off all weeds, or for cleaning walks of weeds and grass it is equally useful. It is a very easy-working tool with a sharp steel blade, a 7-foot handle and wooden wheels.

Net price, $1.50.

EUREKA SEED DRILL.

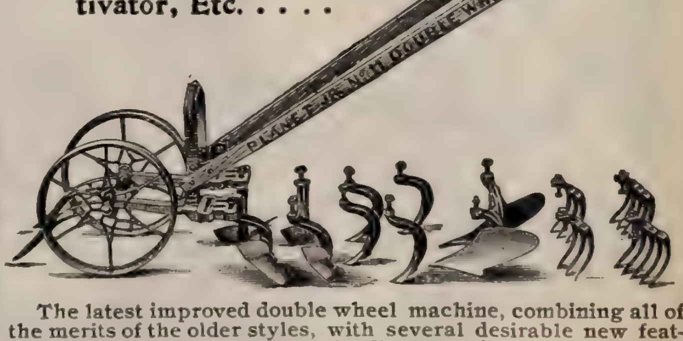


This little hand seed drill is designed for those having but a small garden; not large enough for a large seed drill, but is drops nearly all kinds of garden seed.

Net price, $1.00.

Planet Jr., No. 11 Double Wheel Hoe, Cultivator, Rake and Plow.

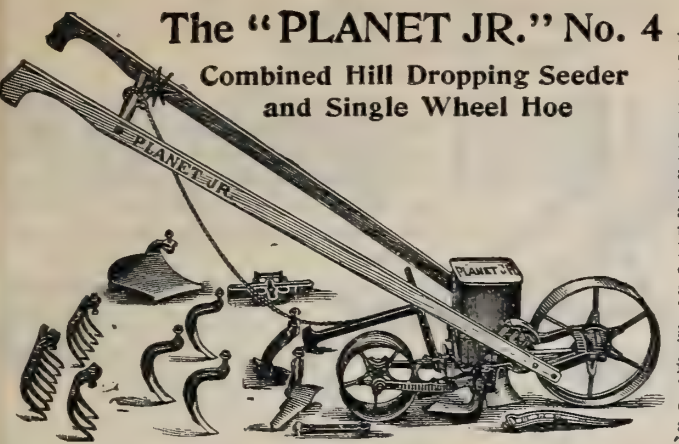
The Latest and Best Double Wheel Cultivator, Etc. . . . .


PLANET JR. No. 11 DOUBLE WHEEL HOES

The latest improved double wheel machine, combining all of the merits of the older styles, with several desirable new features. The wheels, 11 inches in diameter, can be set 9 or 11 1-2 inches apart for narrow rows, and 4 inches apart when used as a single wheel hoe; the frame is malleable, with a quick change device so the position of the tools may be changed without removing the nuts; the arch is 20 inches high, allowing it to straddle crops when well grown. The outfit of tools comprises the greatest variety and all of the latest designs, covering every possible need. Net price, $8.50.

The "PLANET JR." No. 4

Combined Hill Dropping Seeder and Single Wheel Hoe

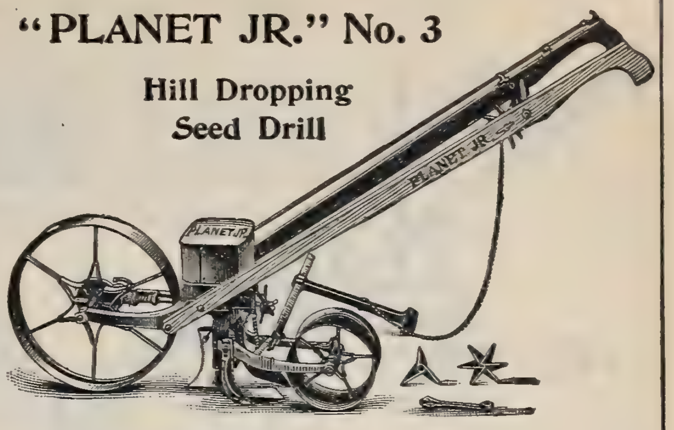

PLANET JR.
PLANET JR.

This is exactly the same style of seeder as the No. 5 "Planet Jr." Hill Dropper only smaller in capacity. It drops in hills at 4, 6, 8, 12 and 24 inches apart, and in drills any thickness, handling the smallest paper of seed perfectly. Throws out of gear instantly by simply raising the handles. The index is accurate, plain and easily set. The Drill is detached and the tool frame substituted by moving but one bolt. It then becomes one of the most admirable Single Wheel Hoes. It has a garden plow, two hoes, three cultivating rakes, new form and made to fit 6, 9. 12, 14 and 16-inch rows, three cultivator teeth and a practical leaf guard.

Price, complete, $10.00; as a Drill only, $8.00.

"PLANET JR." No. 3

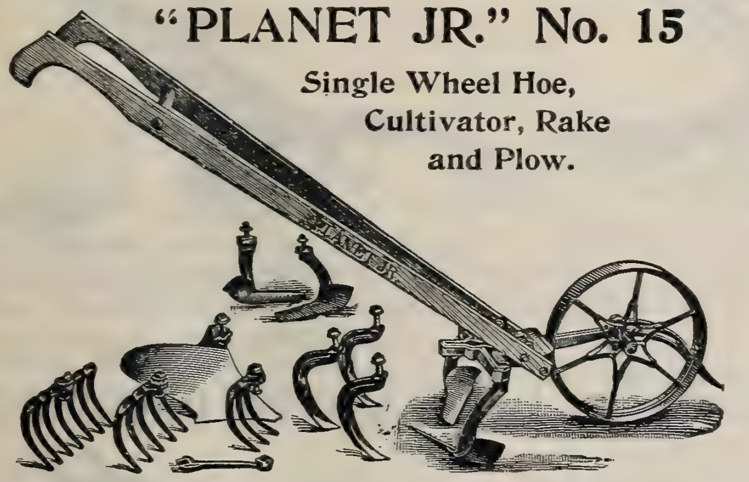
Hill Dropping Seed Drill


PLANET JR.
PLANET JR.

A fine Hill Dropping Seeder with hosts of friends. This drill will sow in a continuous row, in the ordinary way, with the greatest regularity; but its distinctive feature is that it will drop neatly in hills, either 4, 6, 8, 12 or 24 inches apart. The wheel is 15 inches high with a broad face. Is changed in a moment from hill dropping to drill work. Sows equally well whether the hopper is full or contains only a paper of seed, and will not injure delicate seeds such as radish, cabbage, etc., which are so often peeled or crushed by imperfect seeders. The plow is adjustable and opens a very narrow furrow which is a great advantage for after cultivation. 1896 was the first year that this machine was sold widely by the manufacturers of the celebrated line of "Planet Jr." goods, but it has since been bought very largely by careful gardeners and nurserymen and has given entire satisfaction. **Price, $10.00.**

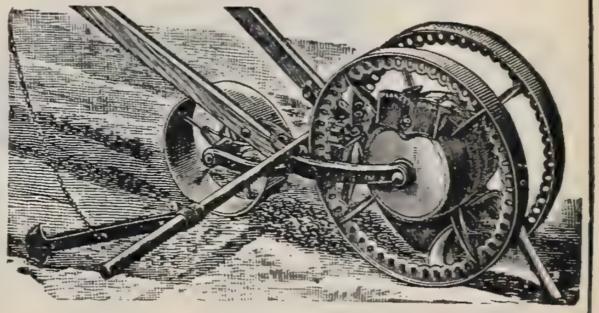
"PLANET JR." No. 15

Single Wheel Hoe, Cultivator, Rake and Plow.



This latest and best Single Wheel Hoe has a 11-inch wheel, with broad face, and a conveniently arranged set of tools, several of them being of a new special design, such as have been found to perform Wheel Hoe work in the very best manner. Has adjustable handles, and frame especially adapted for quick changing of teeth. It is a most perfect Wheel Hoe for market gardeners or for private places. The tools are a well-shaped plow for plowing, marking out, covering and late cultivation; a pair of neat 4-inch shield hoes, just right for hoeing in rows from 9 to 12 inches, and a large pair for wider work; and three cultivator teeth. Also a set of three rakes just right for 6, 9, 12 and up to 16-inch rows, with two arranged side by side; the rakes are just the thing for preparing ground for the seed drill. A practical leaf guard completes the equipment. The frame changes in height, and the wheel to the other side of the frame when both sides of the row can be hoed at one passage. **Price, $6.50.**

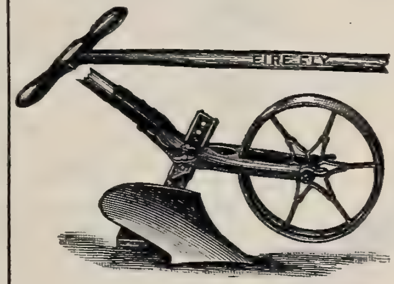
The "PLANET Jr." No. 2 Seed Drill.



This tool is known the world over, and with the exception of the "Planet Jr." Hill Dropping Drills is the most perfect drill known. It holds two and one-half quarts.

The drill sows in an even, regular stream, whether there is much or little in the hopper. The opening plow, being directly between the wheels, follows all irregularities of the ground, is adjustable, and once set, opens the furrow at a uniform depth, and the seeds are deposited in a very narrow line. The machine is extremely simple; no agitators, belts or gearing. **Price, $7.00.**

The "Fire-Fly" Plow.

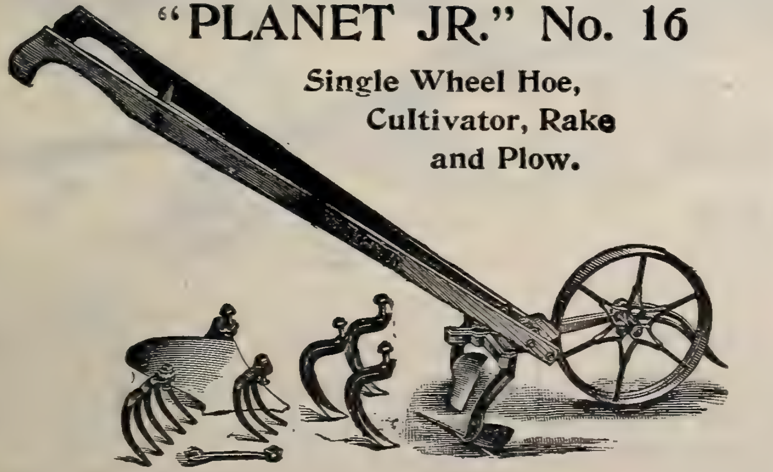


This tool is invaluable for those who have small gardens. The moldboard is tempered and polished steel. The depth may be changed very quickly. The low price brings it within the reach of all. Very useful to plow up the chicken yards.

Price, - - $2.25

"PLANET JR." No. 16

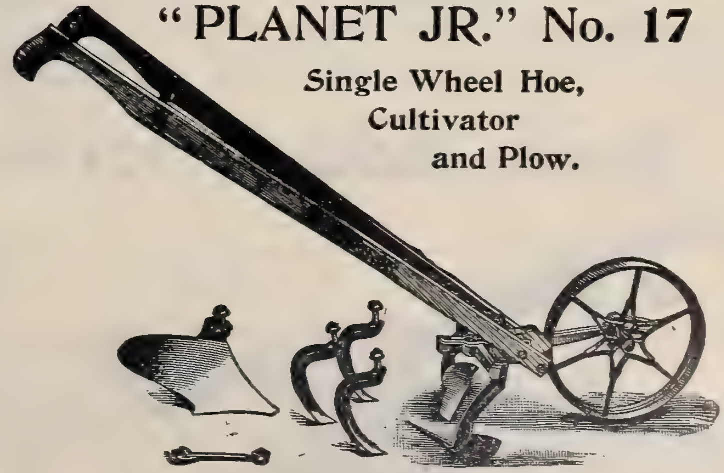
Single Wheel Hoe, Cultivator, Rake and Plow.



This Wheel Hoe is identical with No. 15, except that it has fewer tools, but the price is proportionately lower, and the remaining tools may all be added as wanted. The equipment is a most useful one and will be found just right for a great variety of work. The frame changes in height, and the wheel to the other side of the frame, to hoe both sides of the row at once. **Price, $5.50**

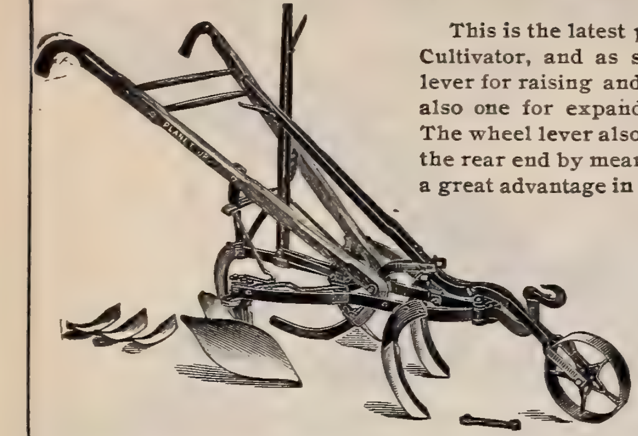
"PLANET JR." No. 17

Single Wheel Hoe, Cultivator and Plow.



This also has the same frame, handles, etc., as No. 15, but is supplied only with a pair of 6-inch hoes, a set of cultivator teeth and a plow, a sufficient outfit for most gardening work. The others can be added at any time. The frame changes in height, and the wheel to the other side of the arm, then working both sides of the row at once. **Price, $4.75.**

THE PLANET JR. No. 8.



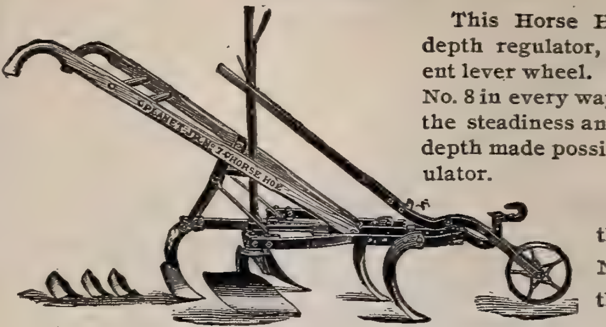
This is the latest pattern Horse Hoe and Cultivator, and as shown in cut, it has a lever for raising and lowering the wheel; also one for expanding and contracting. The wheel lever also governs the depth of the rear end by means of a shoe, which is a great advantage in sandy ground.

List price **$8.00.**

Discount for cash, 50 cents.

THE PLANET JR. No. 7.

Horse Hoe and Cultivator.

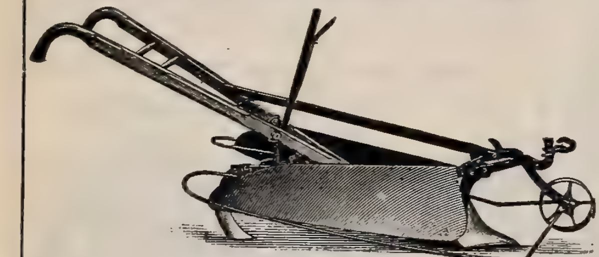


This Horse Hoe is No. 8, without depth regulator, and a slightly different lever wheel. It works the same as No. 8 in every way, except that it lacks the steadiness and absolute control of depth made possible by the depth regulator.

All the attachments that are used on the No. 8 can be used on this style.

List price, **$7.50.** Discount for cash, 50 cents.

THE PLANET JR. CELERY HILLER.

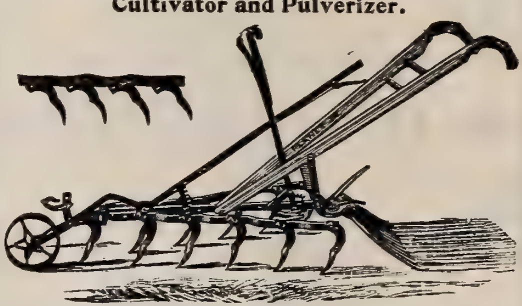


This tool is used largely by celery growers for banking celery in the fall. We can furnish both single or double. The single is used mostly, and will do the work of five men.

List price, double............ $13.00.
List price, single............ 10.00.
Discount for cash, 50 cents.

THE PLANET JR. 12-TOOTH HARROW,

Cultivator and Pulverizer.

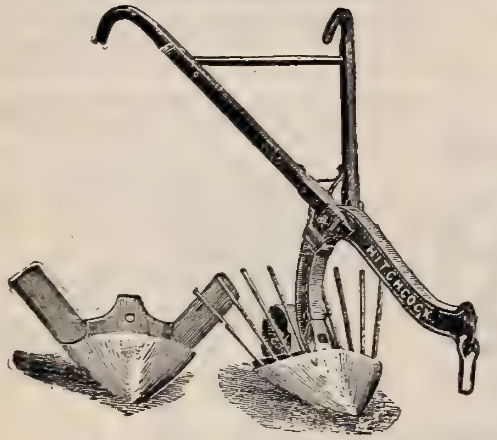


This thorough working and convenient tool has grown in favor among strawberry growers, market gardeners, truckers and farmers. This is because the twelve chisel-shaped teeth do such capital work, without throwing earth on small plants, and because the tool is so convenient, durable and strong, the combination of teeth and pulverizer leaving the ground in the finest condition. The pulverizer also enables the operator to set the tool, in conjunction with the wheel, to any exact depth desired, making delicate work not only possible, but very easy. It is invaluable in narrow rows and delicate work in market gardens and close work on the farm, and is fine for preparing seed beds. The implement is fitted with lever wheel and lever expander, so the depth or width can be changed instantly while in operation; it contracts to 12 inches, and expands to 32 inches. The handles can be raised or lowered to suit the driver.

List price, with pulverizer as shown, **$8.00.**
Less pulverizer, **$6.50.** Discount for cash, 50c.

THE HITCHCOCK POTATO DIGGER

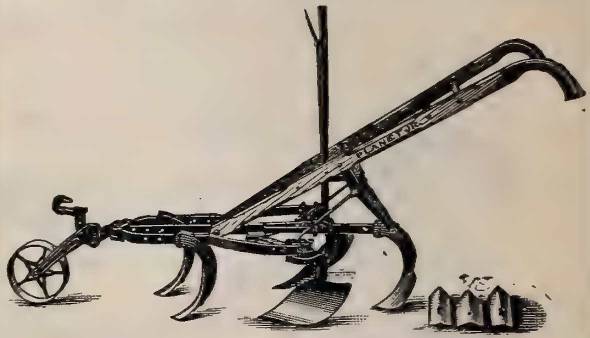
And Shovel Plow Combined.



This implement, though very simple in appearance, is as near perfect as can be attained and come within the reach of every farmer. By the changing of one bolt it may be converted either into a shovel plow or potato digger. The fingers are adjustable, being held in position by the plow point. Thus, in case of breakage, a new part may be inserted. The fingers, points and wings are made of steel.

Hitchcock Potato Digger, $8.00. Hitchcock Potato Digger and Shovel Plow combined, $10.50.
Discount for cash, 50 cents.

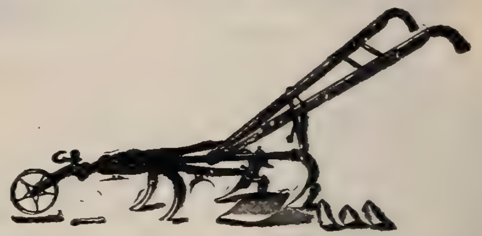
No. 9 HORSE HOE AND CULTIVATOR.



This admirable tool is identical with the No. 8, except that it has a plain instead of a lever wheel. It has the high frame, patented hollow steel standards, patent lever Star wheel, new lever expander, and new hollow steel wheel arms.

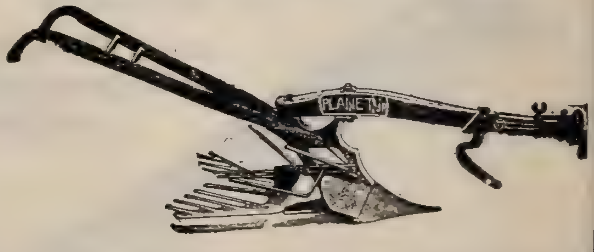
List price **$7.00.** Discount for cash, 50 cents.

No. 4 HORSE SHOE AND CULTIVATOR.



This tool is low in price, strong and simple; it has the old favorite stirrup clamp and plain expanders; they cost a trifle less than the lever, but are less convenient. List price, **$6.00.** Discount for cash, 50c.

PLANET JR. IRISH POTATO DIGGER.

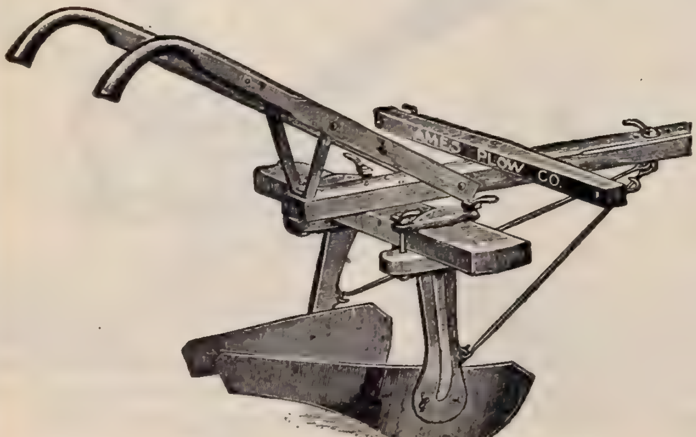


The Planet Jr Double Moldboard Potato Digger is simple, easily understood and worked; has no gearing or shakers; the draught is light, and there is nothing to wear out but the shares, and they and the moldboards are hardened steel. The action is that of raising, dividing and turning the row on edge, and then separating the potatoes from the earth by means of steel fingers and lifting them to the surface. The vine turner makes it perfectly easy to dig when the vines are green, and is of great assistance in weedy patches.

The Planet Jr. Single Moldboard Potato Digger is constructed exactly like the above, except it throws but one way. The double leaves the ground more level, but the single has the advantage of leaving the potatoes less scattered.

List price, $15.00. Discount for cash, 50 cents.

New Model Horse Hoe.


AMES PLOW CO.

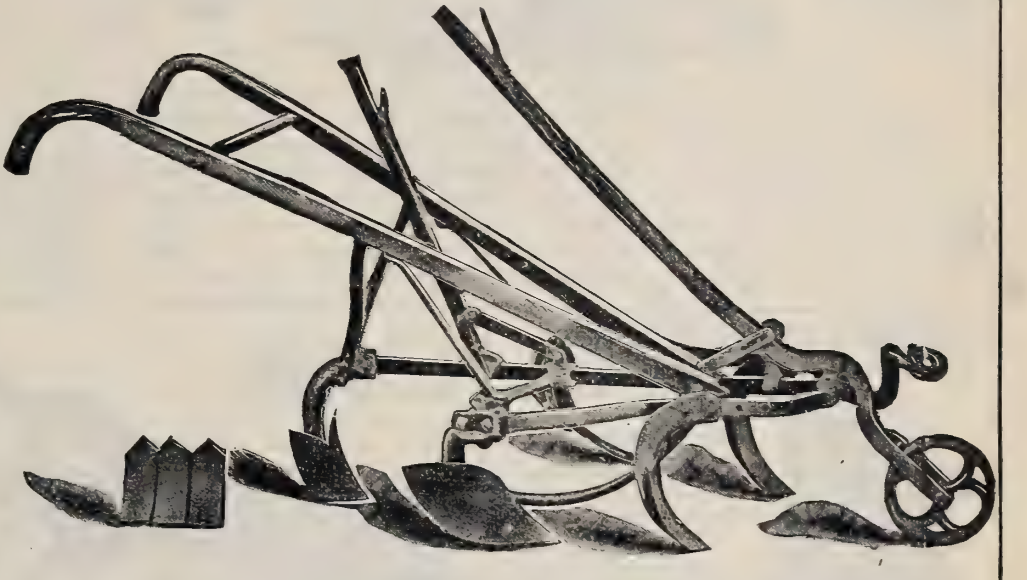
♣ ♣ ♣

Cheapest and best two-horse hoe on the market.

Can be used for furrowing out, covering and hilling up. Frame is made of oak, hillers of polished steel. Price $10.00. Discount for cash, $1.00.

♣ ♣ ♣

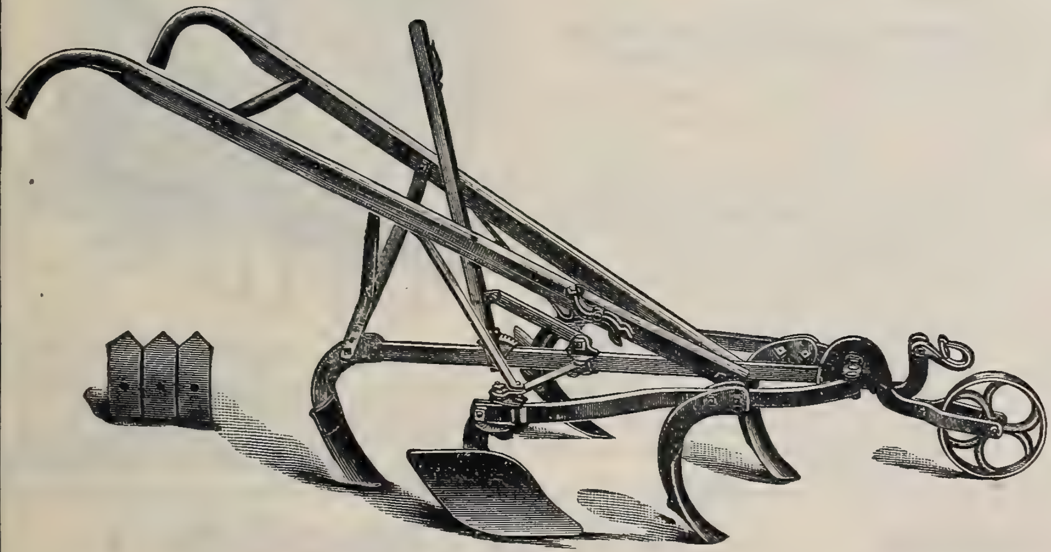
THE
Sterling Horse Hoe and Cultivator



STERLING No. 2. HAS TWO LEVERS.

THE TWO CULTIVATORS shown here are the greatest labor-saving machines we have. No progressive farmer or gardener can afford to be without one of them. After once trying you would not think of getting along without it. The tool is made for us under our own name and nothing but the best steel is used in its construction. The frame is not one of those heavy, clumsy iron frames that tires both man and horse, but it is made very light, yet strong enough to stand any ordinary strain. The No. 2 has one lever for expanding and contracting the frame without removing any bolts or pins; another lever that regulates the height of the wheel and also works a runner attached to it that regulates the depth of the rear end. This is a great improvement on mellow ground as it prevents the teeth from running in too deep. The handles have a double brace which makes it the most rigid Horse Hoe ever made. The Seed Hillers are made of fine quality steel and will work in all kinds of soil. They are also made adjustable and may be set at any angle by simply loosening a bolt. It has the hollow steel standard (the strongest ever made) extra steels for transforming it into a common cultivator. We sell it only as shown in cut, complete.

LIST PRICE $7.00 DISCOUNT FOR CASH, $1.00.



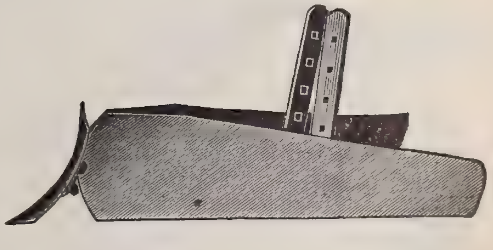
STERLING No. 1.

THIS IS SIMILAR to the above with the exception of the extra lever which controls the wheel and depth regulator. It has the same hollow steel standard as the No. 2 and is arranged for a long hiller (see cut below) to use in furrowing out and for hilling potatoes. With this extra long hiller we have a perfect hoe, cultivator and furrowing plow. The Hiller sells for $2.00 and can only be attached to the No. 1 Hoe. The handles of this hoe are long and well braced, which makes it run very steady. With this one tool and the long hiller you can furrow out, cover, cultivate hill and ridge, and only one tool to do it all as shown in cut.

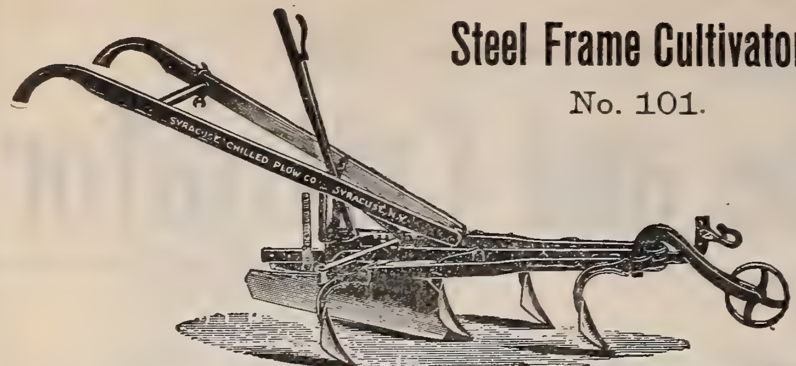
LIST PRICE, $6.50
DISCOUNT FOR CASH, $1.00.

THE LONG HILLER shown here is designed to be used on the Sterling No. 1 hoe and it fills a long felt want, as the short steel hillers furnished by nearly all Manufacturers can only be used as a hiller while these may be used for several other purposes such as furrowing out, covering, fertilizer or seed, and last but not least, for hilling up potatoes. It is made of best steel and can be attached in a very few moments.

NET PRICE, $2.00.



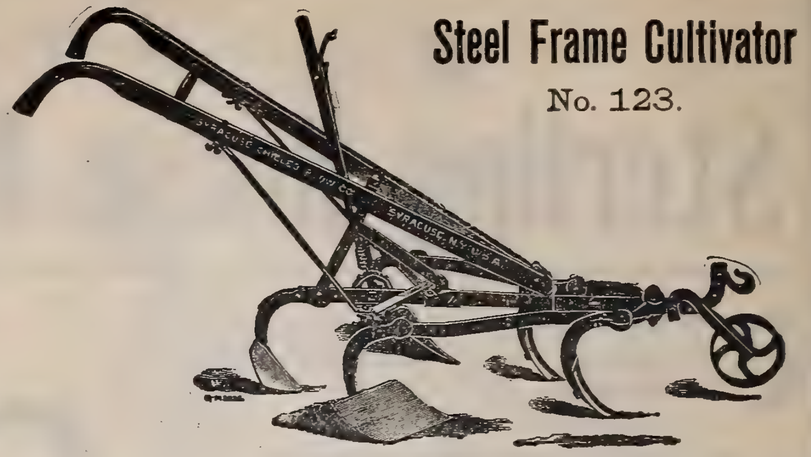
The Hussey Hiller Attachment for the No. 1 Sterling Hoe and Cultivator.


SYRACUSE CHILLED PLOW CO. SYRACUSE, N.Y.

Steel Frame Cultivator

No. 101.

This cultivator is simple, strong and easy to operate. Has no "Dead Centres," and no Loose Joints. The frame and standards of these cultivators are very strong; made of solid steel; the side bars are so curved as to make the teeth run parallel, and also to make all standards interchangeable; square bolt-holes prevent any bother from bolts turning around, and all parts are made with accuracy and nicety of finish. It can be changed to use as a plow, cultivator, horse hoe, coverer and furrowing plow; no extra parts other than those shown in the cut required. List price, **$8.00**; discount for cash, 50c.


SYRACUSE CHILLED PLOW CO. SYRACUSE, N.Y. U.S.A.

Steel Frame Cultivator

No. 123.

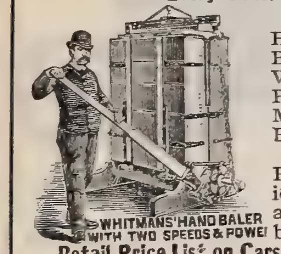
This series of Cultivators meets the demand for a Good Cultivator at a Low Price. The points and standards are of the same stock as used in No. 101, but the frame is somewhat shorter and a trifle lighter. The standards are adjustable for pitch. The handles can be raised or lowered, or shifted to the right or left.

No. 123 (as shown in cut)—Expanding Lever, five 3-inch Points, Wing Points, Shovel Point and Wheel. List price, **$6.00**; discount for cash, 50c.

No. 121.—Same as above less the horse hoe attachment, 50c. less.

WHITMAN'S HERCULES BALING PRESS.

Highest Awards at World's Fair, Chicago, and in Every Other Contest.



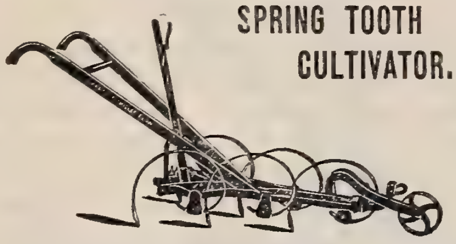
Hand Power.—For Hay, Straw, Wool, Broom Corn, Pea Vines, Cotton, Rags, Paper, Hair, Moss and Materials requiring Baling.

We guarantee this Press to be more rapid and powerful than any other hand power baler of its size in use

Retail Price List on Cars or Boat at St. Louis.

	Sizes.	List Price
No. 1.	Bales 42x18x20 in.	$ 95.00
No. 2	Bales 44x24x22 in.	100.00
No. 3.	Bales 54x26x24 in.	105.00
No. 4.	Bales 60x26x24 in.	110.00

Send for Circulars of Power Press.

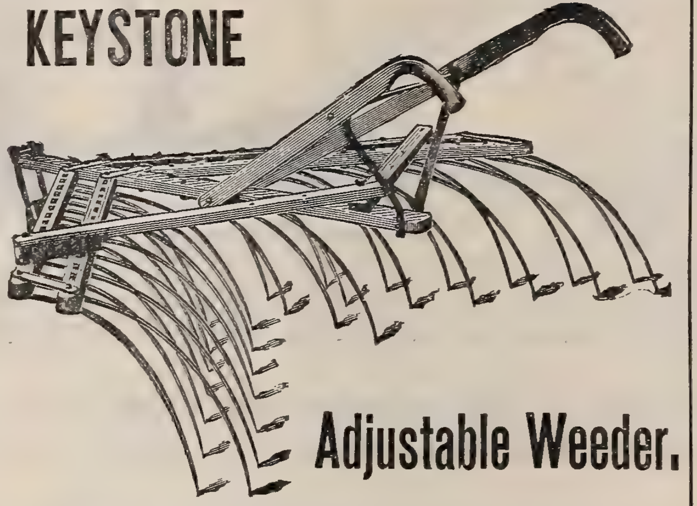


SPRING TOOTH CULTIVATOR.

This Cultivator is especially adapted for use in stony ground. The frames are steel, strong, and well put together throughout. The castings are malleable. The teeth are fine oil-tempered springs. and are alike and interchangeable; they are also adjustable for angle and depth. The adjusting levers are of the same form and construction as used in No. 101 Cultivator.

No. 66.—Expanding Lever, Five Spring Teeth and Wheel. List price, **$8.00**; discount for cash, 50c.

KEYSTONE



Adjustable Weeder.

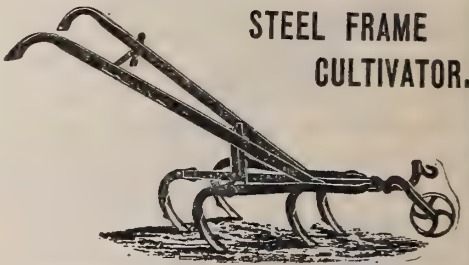
We Guarantee this to be the Best Weeder in the World, or Money Refunded.

Can expand to 7½ feet. Can narrow to 30 inches.

"A stitch in time saves nine." No where does this adage apply more surely than in the early and frequent use of the KEYSTONE WEEDER.

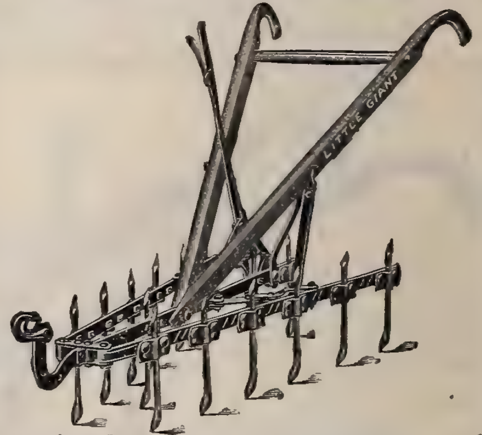
Have you considered the subject of frequent and shallow cultivation? Are you aware that this method of culture is endorsed by the most prominent authorities of agriculture, and has surely come to stay? Frequent and shallow cultivation has been demonstrated to be a success. The "Keystone" is the only Weeder that is adjustable to any depth and width. It can be used as a shallow cultivator—working close to the plants between the rows, until the crops mature—long after other Weeders are laid aside. It has no shafts that will hinder working close to the fence and prevent turning at the ends. IT WILL NOT CLOG. The long, curved, spring teeth are so placed and shaped that clogging is impossible. It is V shaped, which not only makes it a stronger tool than the straight framed Weeders, but adapts itself much better to uneven surfaces. It keeps the surface fined, to admit the air, and breaks the crust, thereby creating a mulch that absorbs the moisture and retards evaporation. List price, **$10.00**; discount for cash, $1.00.

STEEL FRAME CULTIVATOR.

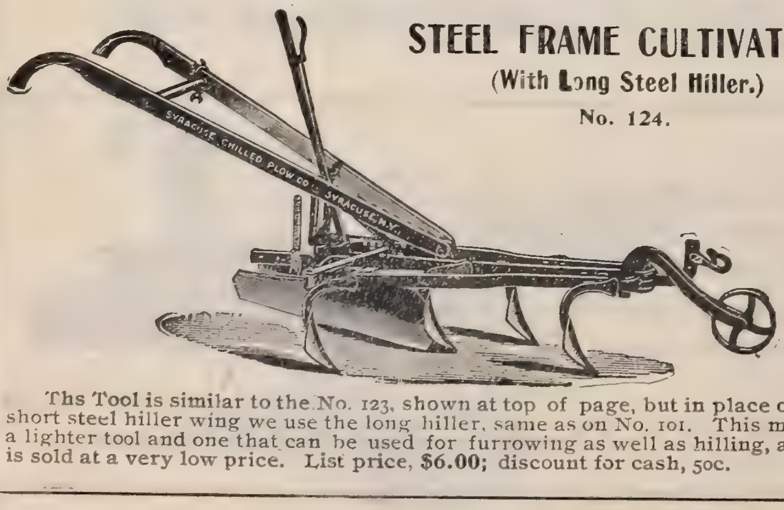


This is a good, well made cultivator, with steel standards, steel frame and points. Furnished with wheel only. List price, **$4.50**; discount for cash, 50c.

Spike Tooth Cultivator and Harrow.



Designed for cultivating between small fruits. Especially adapted to pulverize the soil and leave it smooth and level. The teeth are reversible and the pitch can be quickly changed forward or back by simply loosening one bolt at each tooth. Has 14 teeth, adjusting lever, and wheel. List price, **$6.00**; discount for cash, 50c.


SYRACUSE CHILLED PLOW CO. SYRACUSE, N.Y.

STEEL FRAME CULTIVATOR.

(With Long Steel Hiller.)

No. 124.

Ths Tool is similar to the No. 123, shown at top of page, but in place of the short steel hiller wing we use the long hiller, same as on No. 101. This makes a lighter tool and one that can be used for furrowing as well as hilling, and it is sold at a very low price. List price, **$6.00**; discount for cash, 50c.

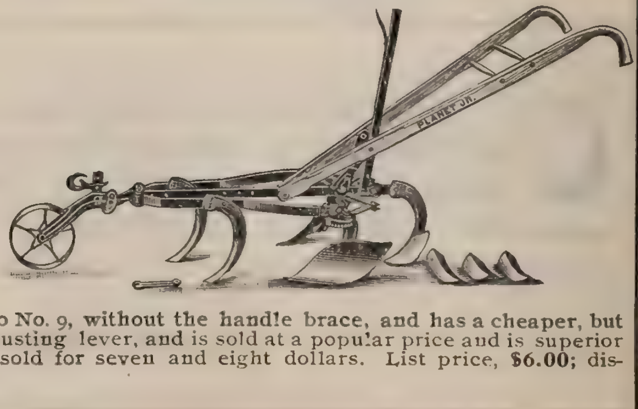
PLANET JR., HORSE No. 5.

HORSE

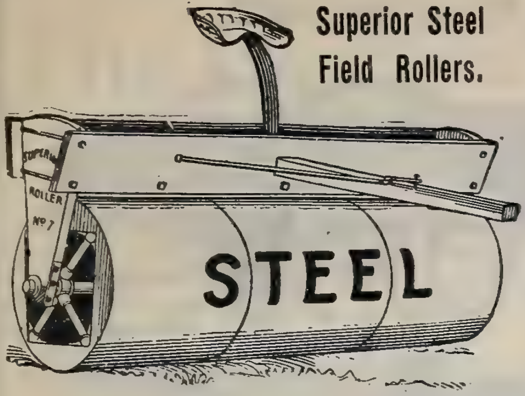
HOE

AND

CULTIVATOR.



This is similar to No. 9, without the handle brace, and has a cheaper, but good substantial adjusting lever, and is sold at a popular price and is superior to many that have sold for seven and eight dollars. List price, **$6.00**; discount for cash, 50c.



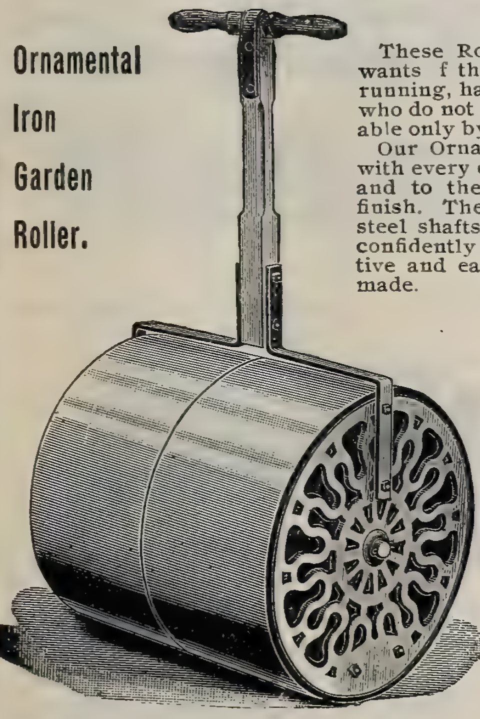
Superior Steel Field Rollers.

This, in our opinion, is the best Field Roller that is on the market. It has cushioned rims, and will, therefore, stand hard usage on rough and stony land; of light draught and turns with the utmost ease. Axle of polished steel, babbitted and self-oiling bearings, drums revolving independently on the shaft when turning corners; practically indestructible; a hardened rolled steel rim close riveted at the edges. Substantial hard wood weight box; by this means the weight can be increased to double its weight.

Number.	Sections.	Total Length.	Diameter.	Average Weight.	List Price.
3	3	6 feet.	24 inches.	550 lbs.	$30 00
4	3	8 "	25 "	750 "	38 00
5	3	6 "	30 "	650 "	34 00
6	3	8 "	30 "	850 "	42 00
7	3	7 "	24 "	650 "	34 00

Twenty per cent discount for cash.

Ornamental Iron Garden Roller.



These Rollers are designed to meet the wants f those who desire a first-class, easy running, handsome and efficient Roller, and who do not require that extra finish attainable only by the use of our Steel Rollers.

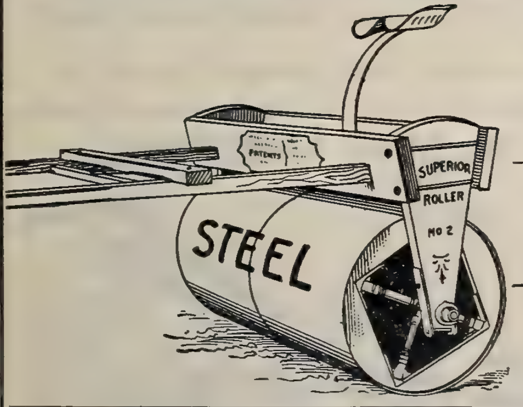
Our Ornamental Rollers are constructed with every care in the selection of material and to the details of workmanship and finish. They all have polished machinery, steel shafts, lathe-bored bearings, and are confidently recommended as the most effective and easiest running Cast Iron Roller made.

List of Sizes and Weights.

No.	Size Diameter.	Weight.	List Price.
1	16 x 20	150 lbs.	$ 8 00
2	19 x 21	200 lbs.	11 00
3	22 x 22	250 lbs.	13 50
4	25 x 23	300 lbs.	16 00
5	28 x 24	350 lbs.	19 00
6	31 x 35	500 lbs.	21 50

DISCOUNT FOR CASH: 1 and 2, 50 cents; 3 and 4, $1.00; 5 and 6, $2.00.

All these Rollers have two Sections, and **Automatic Handles.**



STEEL ONE-HORSE, or Pony Lawn Roller.

FOR Gentlemen's Country Seats, Golf Links and Parks.

CAN Be Fitted with Seed and Fertilizer Sowers.

No.	Sections.	Track.	Diameter.	Average Weight.	List Price.
2-L.	2	4 feet.	24 inches.	500 pounds.	$25 00
1-L.	2	4 " 8 inches.	30 "	600 "	40 00
0-L.	3	5 "	24 "	550 "	30 00
3-L.	3	6 "	24 "	600 "	35 00

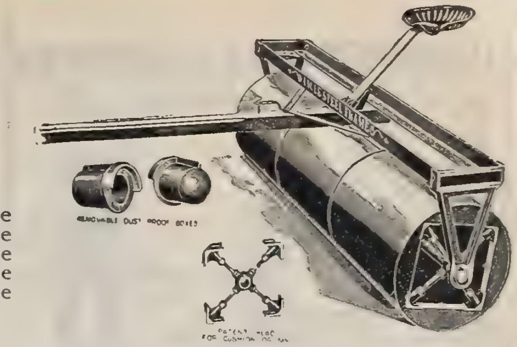
Twenty per cent discount for cash.

These Rollers are supplied with shafts or poles as desired.
All can be weighted to three times the figures given above.

The Standard Field Roller.

Steel Drum, Steel Angle Bar Weight Boxes.

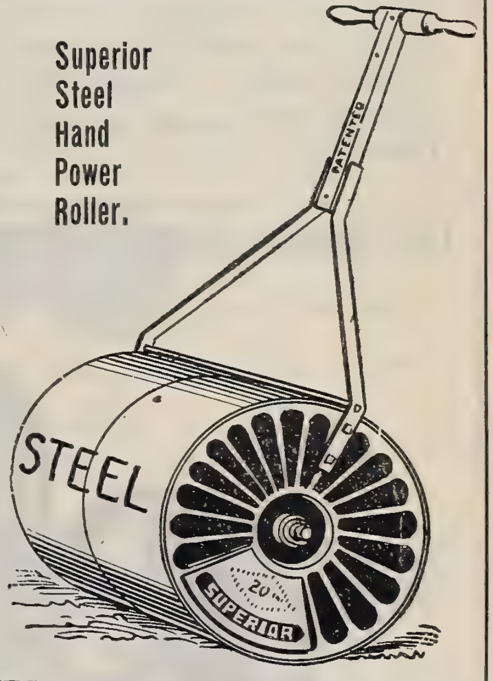
This Roller has the same steel drum as the Superior, the only difference being in the frame and drum head, the latter is made of cast iron, the former of angle steel.



Number.	Sections.	Total Length.	Diameter.	Average Weight.	List Price.
10. Plain Roller	3	6 feet.	24 inches.	550 pounds.	$27 00
11. " "	3	7 "	24 "	650 "	31 00
12. " "	3	8 "	25 "	750 "	36 00
13. " "	3	6 "	30 "	650 "	31 00
14. " "	3	7 "	30 "	750 "	36 00
15. " "	3	8 "	30 "	850 "	40 00

Twenty per cent discount for cash.

Superior Steel Hand Power Roller.



Wet soil and grass clippings will not stick to steel as they will to cast iron.

Smooth surfaces and close joints only will perfect Lawns, Walks or Tennis Courts.

As rolling is most effective when the soil is moist and pliable, our Steel Rollers are the only implements fully equal to needs of those who wish to give the limit of finish to their Walks, Lawns and Tennis Courts.

The sections are made of smooth roller steel, without projections or roughness of any kind to gather soil or grass.

The axles are of polished machinery steel, and the journal boxes are lathe bored and babbitted to reduce friction. The result is a Roller which can be used of maximum weight with a minimum of power.

The handles stand erect automatically. The rims are cushioned to prevent breakage and deaden the disagreeable noise common to ordinary rollers when in use.

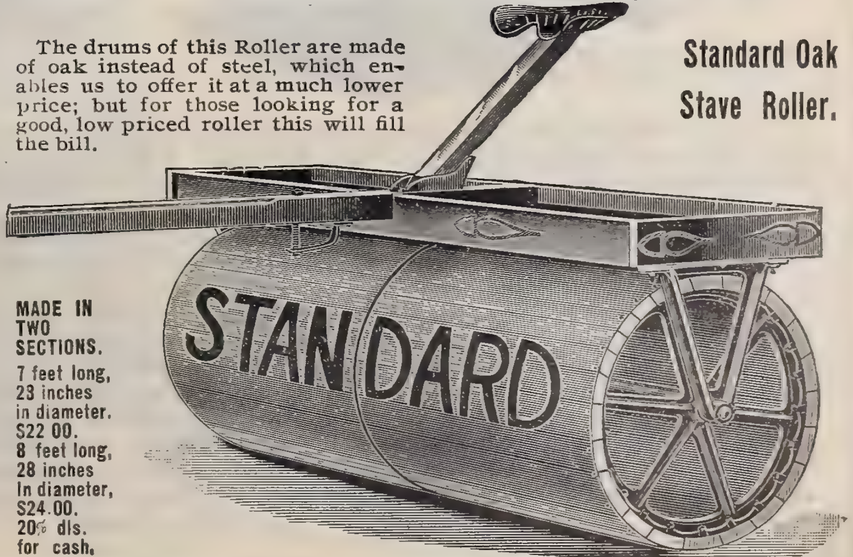
LIST OF SIZES AND WEIGHTS

Number.	Sections.	Length.	Diameter.	Average Weight.	List Price.
A	1	20 inches.	20 inches.	250 pounds.	$14 00
B	1	24 "	24 "	375 "	18 00
C	2	20 "	20 "	275 "	15 00
D	2	24 "	20 "	300 "	17 00
E	2	20 "	24 "	375 "	19 00
F	2	24 "	24 "	400 "	21 00

$2.00 discount for cash.

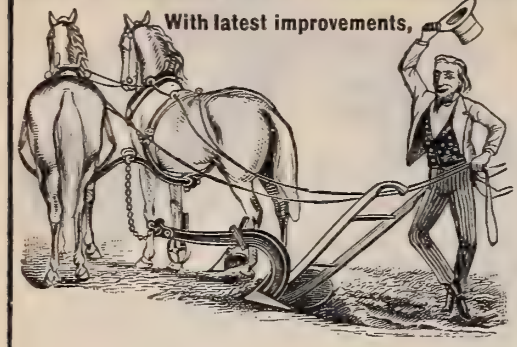
Standard Oak Stave Roller.

The drums of this Roller are made of oak instead of steel, which enables us to offer it at a much lower price; but for those looking for a good, low priced roller this will fill the bill.



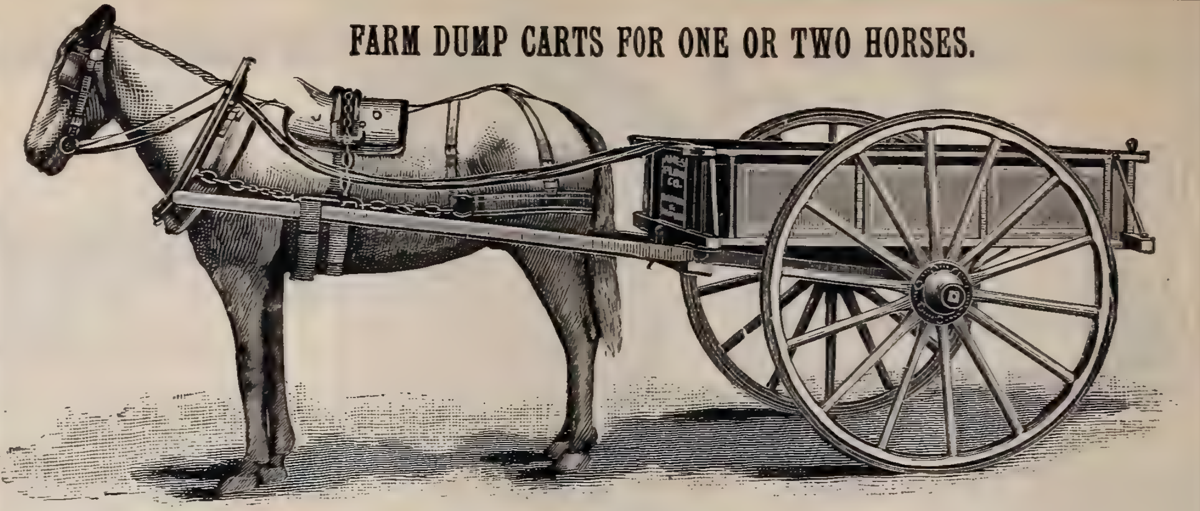
MADE IN TWO SECTIONS.
7 feet long,
28 inches
in diameter,
$22 00.
8 feet long,
28 inches
In diameter,
$24.00.
20% dis.
for cash.

SHERWOOD STEEL HARNESS



This Harness requires no whiffletrees, no long tugs; nothing in the way around the horses' heels; nothing to bark the trees; team works better and easier; less work for man and team. Can be used on plow, scraper or wagon. List price, $15.00. Discount for cash, $3.00.

FARM DUMP CARTS FOR ONE OR TWO HORSES.



The accompanying illustration represents our Medium Farm, or Contractors' Dump Cart. This cart is made very strong, yet light enough for one-horse farm work. We can furnish any heft for one or two horses.

Light Farm Cart,	List Price, $45.00	Railroad Cart,	List Price, $54.00
Medium Farm Cart,	" " 50.00	Extra Railroad Cart,	" " 60.00

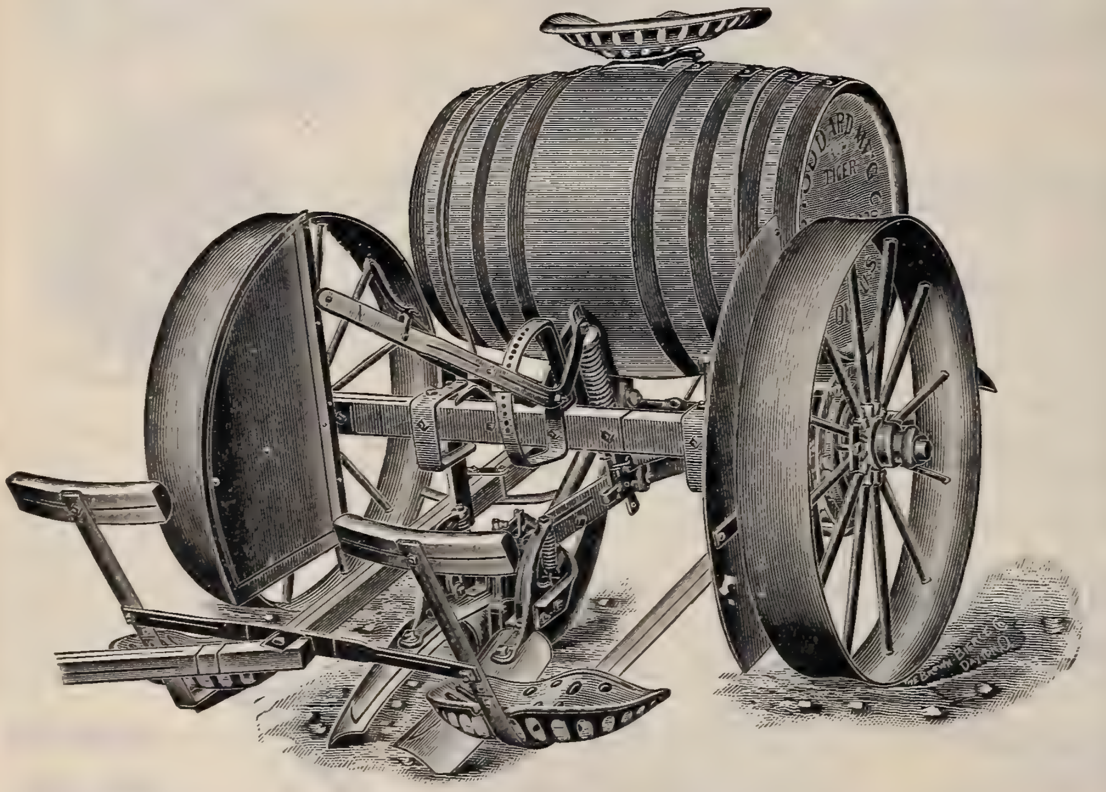
WRITE FOR DISCOUNT.

The Stevens Lawn Fertilizer Sower.

List price, $12.00. Discount for cash, $1.00.

The TIGER TRANSPLANTER, No. 2,

For Setting and Watering in One Operation Tobacco, Tomato, Sweet Potato, Cabbage and Other Plants.

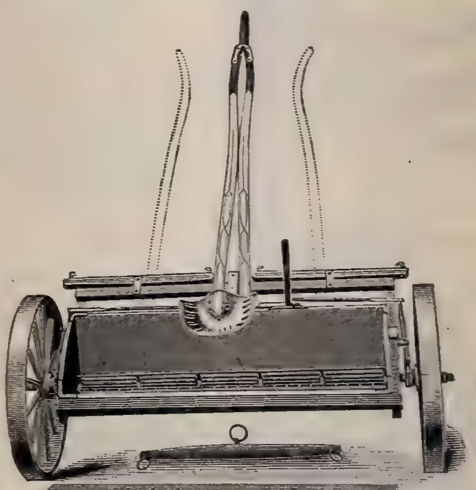


The invention of the transplanter introduced a new era in the cultivation of tobacco and other crops that require transplanting. Previous to that event the raisers of such crops labored under an immense disadvantage. Not only was the work tedious, slow and laborious at best, but the planting was continually subjected to delays on account of dry weather. The Tiger Transplanter makes the planter absolutely independent of the weather. He sets his plants when he gets his ground ready, and it makes no difference whether the soil is dry or moist.

The Tiger makes use of the human fingers for this work, which are much better fitted for the purpose than any machine parts ever conceived. The flow of water from the valve, automatically tripped at given spaces, guides the dropper as to the proper time to set the plant. The roots are in the puddle formed by the water, which is always exactly at the right place. The water delivery spout is formed so that it delivers all the water against the plant roots. The puddle, or ball, is formed in the trench with the plant in the center, loose earth being forced down, around and above it. The roots go into the ground straight, are handled gently, without injury, and they will grow.

List Price, $50.00. Write for discount.

The Stevens Fertilizer Sower.

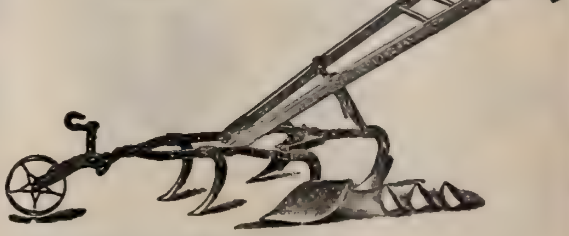


The latest improved and best machine for sowing all kinds of artificial fertilizer, such as bone, phosphate, cotton seed meal, ashes, lime, etc., either damp or dry, in drills or broadcast. Unequalled for top-dressing grass lands, lawns or large parks.

List price, $50.00; discount for cash, $5.

The Fire-Fly 5-Tooth Cultivator.

FIRE-FLY.



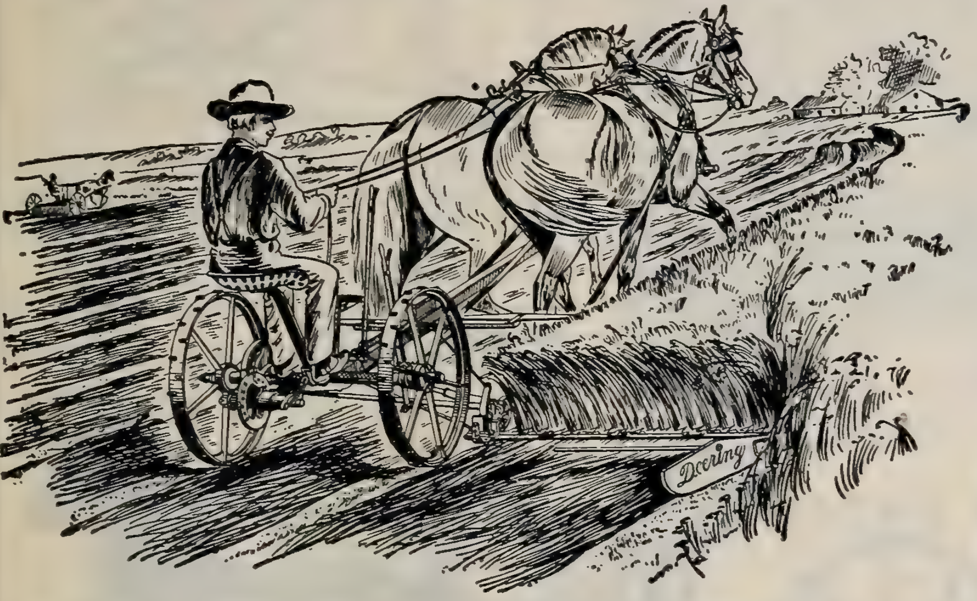
This is a new model 5-tooth cultivator and horse hoe, with solid frame, stiff handles, adjustable in height, open frame, hollow steel standards. No expanders or hinge. Outside width of frame 18 inches.

List price, as shown in cut, $5.00.
Discount for cash, 50 cents.

The Ideal or Bicycle Mowing Machine.

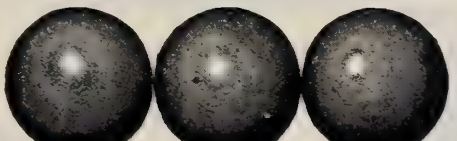
The Only Machine Made that Runs on Ball Bearings.

This machine runs on ball and roller bearings, the same as the most approved bicycles, and has the same relation to the ordinary mowing machine as the bicycle does to the old velocipede, and we defy anyone to show us one good reason for buying any other machine on account of looks, material, principle or workmanship. The mammoth works of the Deering Harvesting Co., are among the largest in the world, covering 65 acres of ground and employing over 6000 hands, not including the thousands of agents which represent them in all parts of the world. The capacity of these works is one complete machine and thirty miles of twine every minute. It costs money to equip these machines with such bearings, but we are able to offer them at but a few dollars advance above the old style machines.



One=Horse, 3 1=2 and 4 ft. Cutter Bar.
Two=Horse, 4 1-2 and 5 ft. Cutter Bar.
Giant 6 and 7 ft. Cutter Bar.
All with Ball Bearings.

If you want to know anything about the Ideal drop us a card, we undoubtedly can give you the name of some reliable farmer in your town that has one and who will explain to you the difference between the old style bearing and a ball and roller bearing. So positive is the action of the gearing on the Deering Ideal that the knife starts the instant the wheels move; and this machine can be started without backing the team in the most difficult crops; the horizontal crank shaft allows the pitman to run easy and without that jerking and jarring and wabbling on most machines. A few of its many good points are, floating cutting-bar, serrated ledger plates, foot lever for raising cutter-bar, no neck weight on the horses, and many other good points not found in any other machine.



Exact size of balls used on Ideal Deering Mower.

Nothing like them used on any other machine.

Price, 4½ Foot Cutter-Bar,.........$40.00. Price, 5 Foot Cutter-Bar,.........$42.00 Price. 6 Foot Cutter-Bar, Giant,....... $45.00

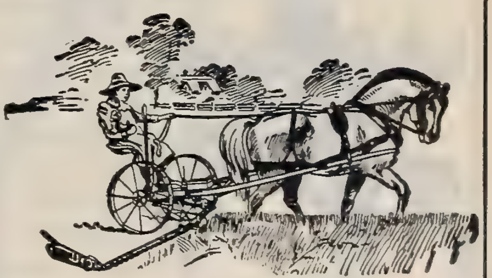
We carry over 3,000 Dollars Worth of Repairs for these Machines in Stock.

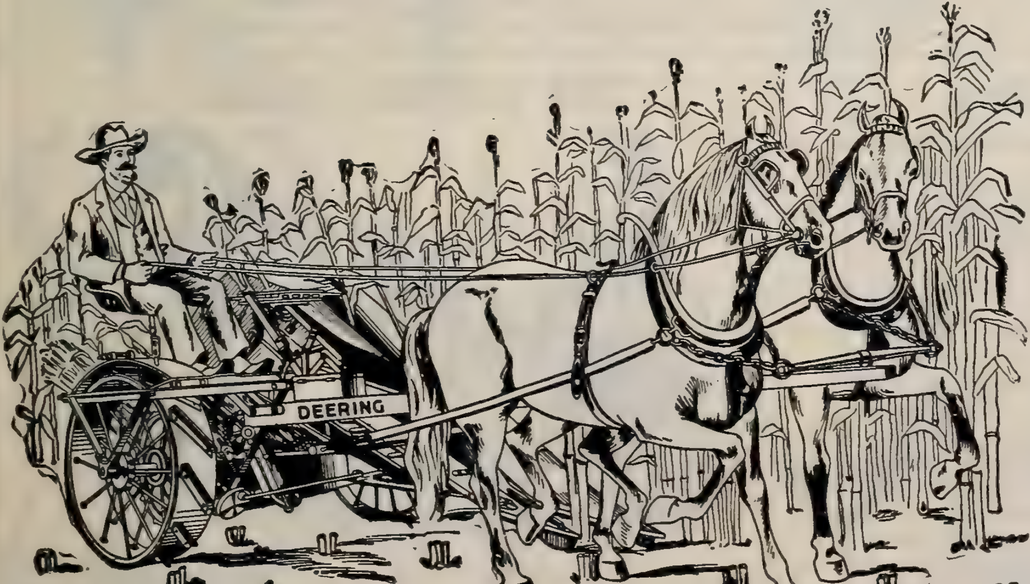
Deering Ideal One-Horse Mower, 3½ and 4 Foot Cut.

The Deering One-Horse Mower is used to cut the finest lawns in Lincoln Park, Chicago. Secretary Bryan of the Board of Commissioners says: "I consider it a perfectly reliable, trustworthy machine."

Many of our best farmers buy two of these one-horse 4 foot cut machines and thus with one pair of horses cut 8 feet instead of 4½ or 5 feet with one two horse machine.

Price, 3½ Foot Cutter Bar,..........$38.00. Price, 4 Foot Cutter Bar,..........$40.00.





Deering Ball=Bearing Corn Harvester.

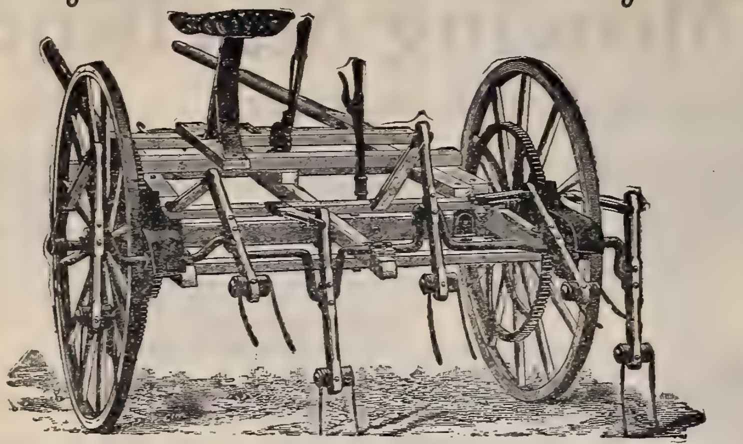
Declared by the best informed authorities to be the Only Successful Corn Harvester before the American people. Made on the right principle. The Deering plan of permitting the corn to fall backward on a low horizontal binder deck is superior in every way to the method of holding the top-heavy stalks upright. Lightest in draft, makes a better bundle, and does not break off nearly as many ears as are broken by the vertical machines.

To any farmer who has more than a medium acreage of corn and has any use at all for his fodder, a good corn harvester and binder is a necessity.

Send for handsome illustrated catalogue.

PRICE, - - $125.00

The Bay State Steel or Wood Frame Hay Tedder



Our steel frame is the neatest and most substantially made tedder offered. It is mounted upon a substantial steel wheel, with a solid steel axle running from wheel to wheel. The frame is of angle steel in one solid piece; no spliced corners; the center is built of T steel, which gives it great strength. Forks and fork arms are made of crucible spring steel; a convenient lever is furnished for raising and lowering the frame and throwing in and out of gear; combined pole and shafts to use for one or two horses; no wood is used, except for the shafts. The Bay State Wood Tedder is same as above, excepting it has a wood frame and wood wheels.

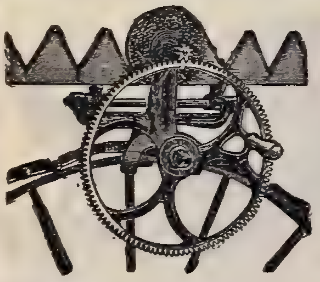
PRICES.

Six Fork Steel	$30.00
Six Fork Wood,	28.00
Eight Fork Wood	30.00

Discount for cash, $2.

These prices are subject to change without notice.

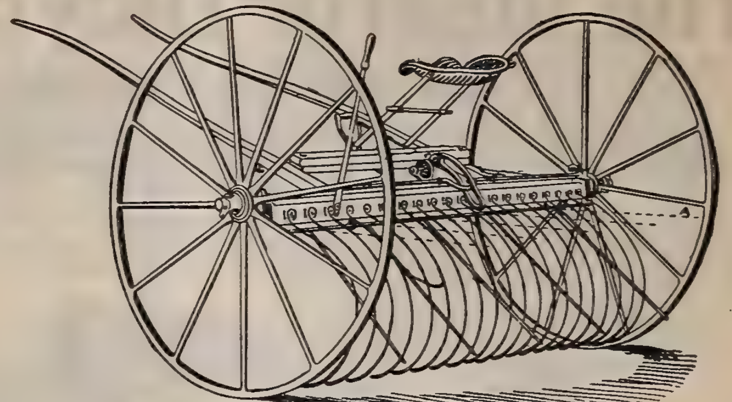
Perfection Knife and Sickle Grinder.



The easiest, simplest and most practical method ever invented for dressing and grinding mowing machine and harvester knives. No costly stone to be kept in order. The only mashine that will grind every knife exactly the same, and make any bevel desired; grinding out gaps and leaving the same bevel on the balance of the knife.

List price, $6.00. Discount for cash, $1.00.

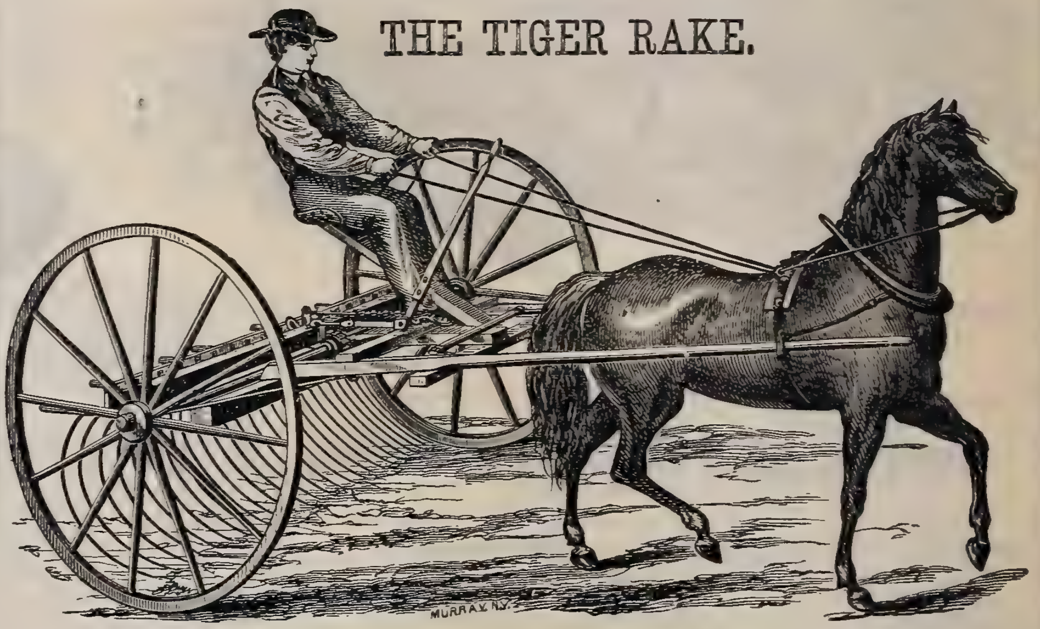
NEW YORK CHAMPION RAKE.



It is impossible to find all the good points in any one tool. but this rake will properly rake green hay and aftermath better than any other rake. It has the sled runner tooth, is a self-dumping rake, and is easily operated by any one capable of driving a horse. There are several imitations on the market. Be sure and get the GENUINE.

List price, $20.00. Discount for cash, $1.00.

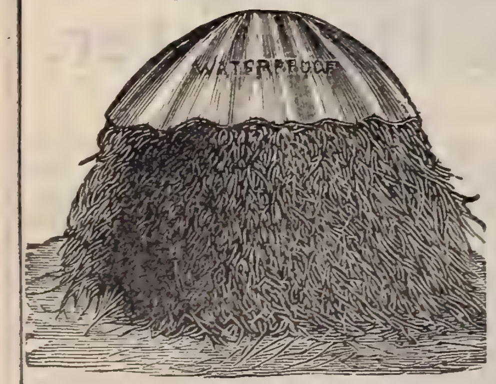
THE TIGER RAKE.



This rake has been sold in New England for the past fifteen years, and has given the best satisfaction probably of any rake on the market. It has a steel axle running the entire length of the rake, and the material used is of the very best; has horse and hand dump. It is simple, easily handled by one large enough to drive a horse, and without doubt the most durable rake ever put on the market. List price, $22.00. Discount for cash, $2.00. These prices are subject to change without notice.

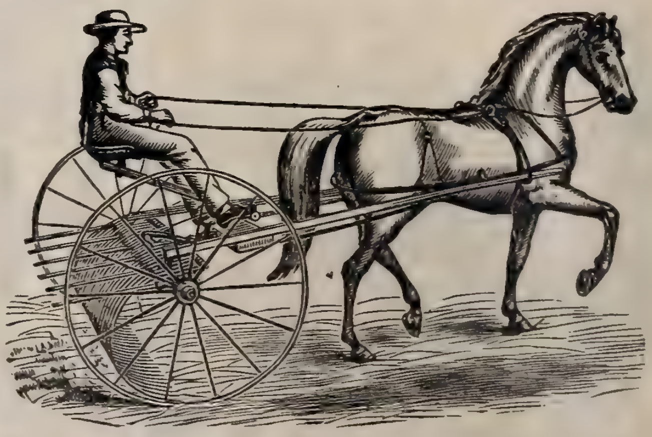
Symm's Patent Hay and Grain Caps.

Pronounced by the Hatch Experiment Station to be the Best Cap of the Several Tried by Them.



Thoroughly water-proof wood fibre Caps, light, efficient and thoroughly practical, and will last a lifetime. They nest together for carriage and storing, are 4 feet in diameter and 18 inches deep. By cutting hay in bloom, letting it wilt and then cocking it and covering it with these caps, which keep off rains and dew, protect from hot sun during the day, and retaining the heat in a cock at night, a superior quality of hay can be made. These caps are not blown off by the wind—do not require fastening down. One hundred of them, nested, take up a space 3½ feet high, and will cover 6 to 8 tons of hay. These caps are also valuable for covering potatoes, roots and apples, allowing them to sweat before storing or barreling. Price per 100, $35.00. We have only a limited quantity.

THE YANKEE RAKE.

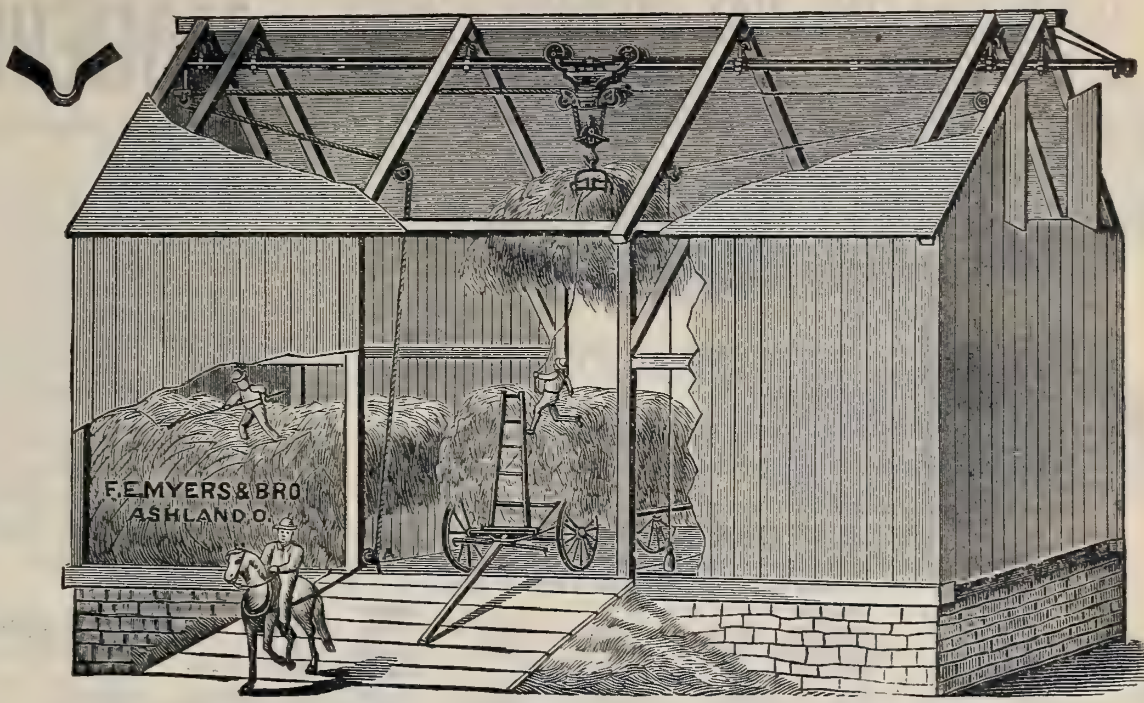


This is the old reliable Yankee, which needs no introduction. It is a very easy rake to operate, each tooth being independent; it will pass over large stones without breaking the teeth. It is so easy to operate that a child can handle it.

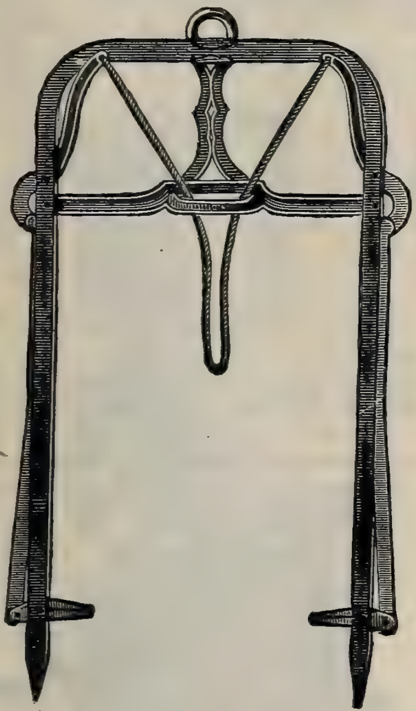
List price, $22.00. Discount for cash, $2.00.

Myers Reversible Steel Track Hay Carriers.

No Barn Is Complete Without One of These Rigs.

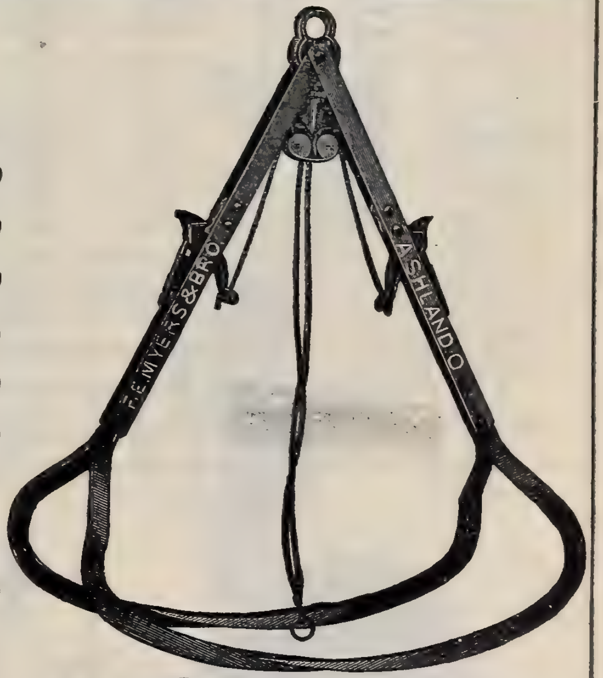


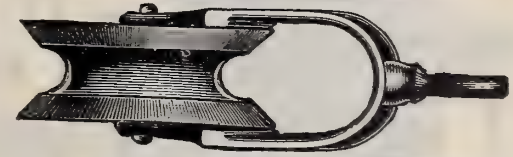
The Myers Carriers for rod, wood, or steel track are the most durable and easiest rigs to operate of any on the market. Any one with a hammer and wrench can rig his barn as well as an expert carpenter. We furnish everything necessary for rigging any style of barn. If you will send us the length and height of your barn and style of ridge pole, will name you price for complete job.

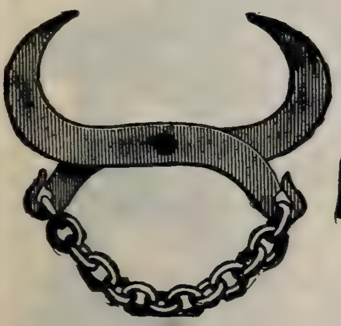


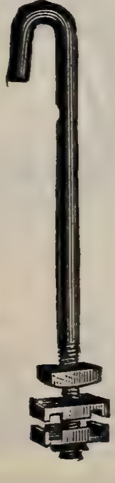
PRICES.

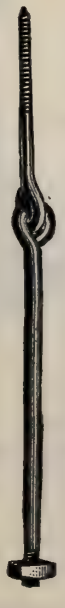
Reversible Carrier, each, - - -	$5.00
One Way Carrier, each, - - -	4.50
Wood Track Carrier, each, - - -	4.50
Steel Track, per foot, - - - -	.13
Steel Hanger Hooks, per dozen, -	1.00
Malleable Iron Rafter Brackets, per doz.,	.50
Jointed Hanger Hooks, per dozen -	1.25
Four Tine Grapple Forks, each,- -	4.00
Six Tine Grapple Forks, each, - -	5.00
Double Harpoon Forks, each, - -	1.00
Knot Passing Pulleys, each, - -	.25
Common Pulleys, each, - - -	.20
Rope Hitch, each, - - - -	.25
Floor Hooks, each, - - - -	.10
Steel Grapple, each, - - - -	.50

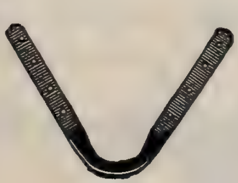


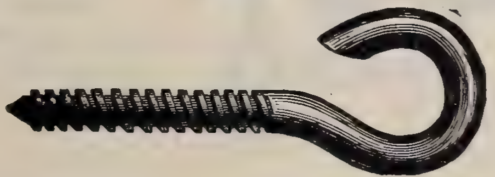


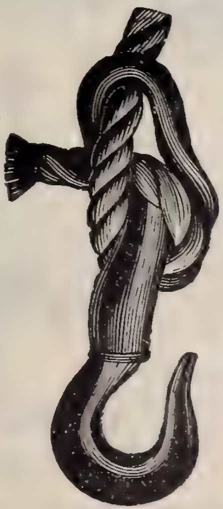


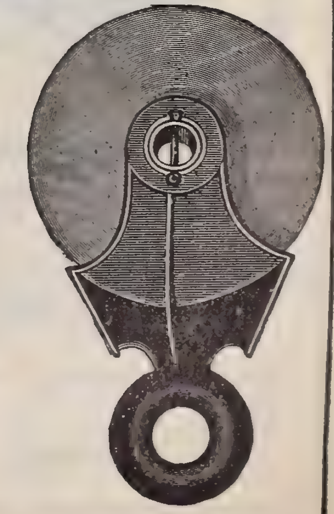


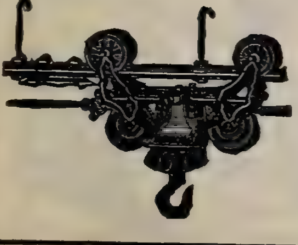






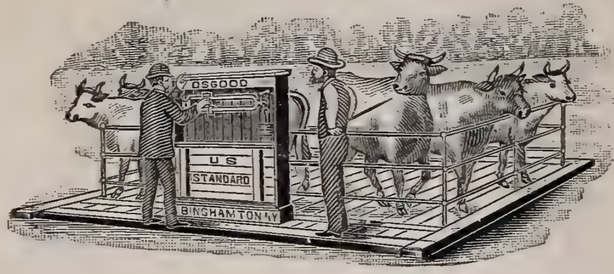






THE "OSGOOD"

U. S. Standard COAL, HAY AND FARM SCALES.



There is no better scale on the market than the OSGOOD. We have had one of them in constant use in our seed room for fifteen years, and it is as good, apparently, as when new.

Every OSGOOD Scale warranted to be an accurate United States standard scale, and to last as long as any other scale of like capacity in like location.

Beams (single, double or combination), of extra heavy polished brass, with sliding poise.

Send tor free Catalogue and Descriptive Sheet, and Discount.

PRICE WITHOUT LEVERS.

Wood Levers to be Furnished by the Purchaser. All Metal Parts Complete, and Beam Box Furnished at These Prices.

No.	Tons Capacity.	Size of Platform.	Distance from Edge of Platform to Beam Rod.	Single Beam.	Double Beam.	Triple Beam.	Approximate Shipping Weight.
1	3	7x13	2 ft.	$45.50	$47.50	$55.50	lb. 225
2	3	8x14	2 ft.	45.50	47.50	55 50	225
3	4	8x14	2 ft.	50.50	52.50	60.50	250
4	5	8x14	2 ft.	55.50	57.50	65.50	250
5	5	10x15	1 ft. 7 in.	57,50	59.50	67.50	250
6	6	8x15	2 ft. 6 in.	62.50	67.50	74.50	300
7	6	8x22	2 ft. 1 in.	82.50	87.50	94.50	500
8	10	8x14	2 ft.	87.50	92.50	102.50	350
9	10	9x18	2 ft.	102.50	107.50	117.50	500
10	10	8x22	2 ft. 1 in.	107.50	112.50	122.50	500
11	10	12x22	2 ft.	117.50	127.50	137.50	525
12	15	8x15	2 ft. 6 in.	122.50	132.50	142.50	400
13	15	8x22	2 ft. 1 in.	142.50	152.50	162.50	550

Extension levers to 5 feet and inclusive from the edge of platform, $5.00 net, and $1.00 per foot additional net over and above 5 feet.

Other sizes can be furnished at a small advance.

Above prices are exclusive of timber and foundation, which are to be furnished by the customer.

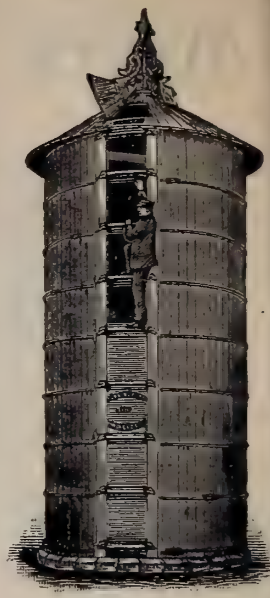
Beam Boxes are built complete, nicely painted and lettered, and included in the above prices.

For scales without beam box, deduct $1.50 net after making discounts. Write for Discount.

Discount 33 1-3 Per Cent.

—THE—

MODERN SILO.



Silos have been in use for the past 25 years, but not until within two or three years has the round silo been on the market, but in that short time farmers have come to the conclusion that it is the only shape a silo should be built, as there are no corners where the silage can spoil. The storing of silage is no longer an experiment, and it is not a question of whether you can afford one, but which kind shall you buy. The **Dirigo Silo,** which we sell, is made for us by one of the oldest and most reliable manufacturers of wood tanks in the country, and they know how to build a silo for the least money.

Write for Illustrated Catalogue and Discount.

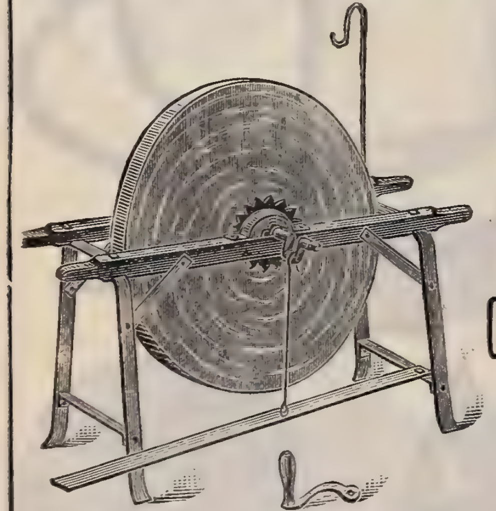
PRICE LIST.

Made of Cypress, Pine, Spruce and Hemlock.

Diameter.	Height.	Capacity.	Acreage to fill 15 tons to the acre.	Cows it will feed 6 mos.; 40 lbs. day.	List.
10	20	28	2	8	$150.00
12	20	40	3	11	174.00
12	24	49	3½	13	204.00
12	28	57	4	15	237.00
14	24	67	4½	17	240.00
14	28	78	5½	22	273.00
16	24	86	6½	24	267.00
16	26	95	7	26	291.00
16	30	108	8	29	321.00
18	30	138	10	37	372.00
18	36	166	12	45	447.00

Discount on Pine and Spruce, 35%. On Cypress, 5%. This list does not include the Cover.

List on Covers. 10-foot, $27.00; 12-foot, $33.00; 14-foot, $42.00; 16-foot, $54.00; 18-foot, $75.00. Discount same as on Silos.



R. B.

Mounted Grindstones

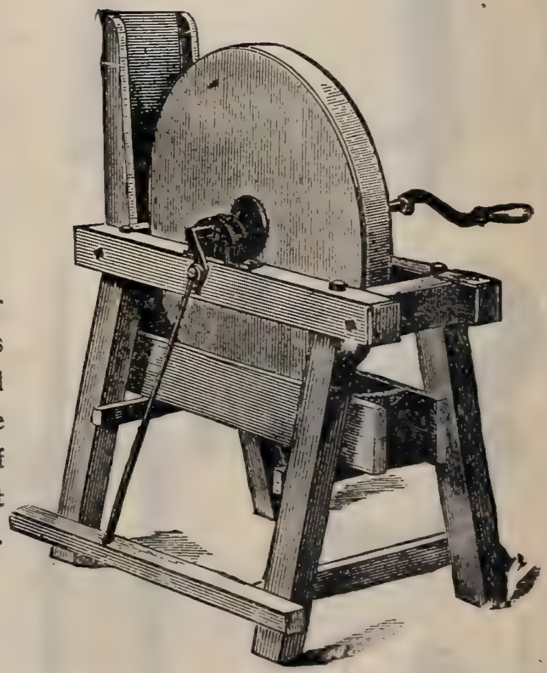
This is the best low-priced grindstone on the market. The stone is best Borea Grit (Ohio), the legs are iron, which will not rot if left out during haying, the wood side pieces are painted bright vermilion, and the hangings made interchangable. It is a very handy stone to move from one place to another.

No. 1.	Stone weighs about 100 lbs.	$5.00
No. 2.	" " " 80 lbs.	4.50
No. 3.	" " " 60 lbs.	4.00

Discount for cash, 50c.

THE HECLA

OAK FRAME GRINDSTONE.

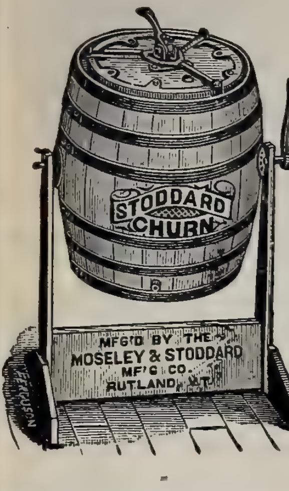


This stone we have made for us, and it is as good a stone as money will buy. It is furnished with a best *Nova Scotia* stone, the frame is very strong and made of oak, has both crank and foot treadle, with trough and protector.

Size.	List Price,	Net Price,
22 in.	$7.25.	$6.00
24 in.	8.00.	6.50
26 in.	8.50.	7.00
28 in.	9.00.	7.50
30 in.	10.00.	8.00

THE STODDARD CHURN.

The Stoddard Churn is made by hand in the most thorough manner and of kiln dried white oak. It will last for years. The principle is concussion, not friction—has no float nor paddle inside. It is easily operated, easily cleaned.

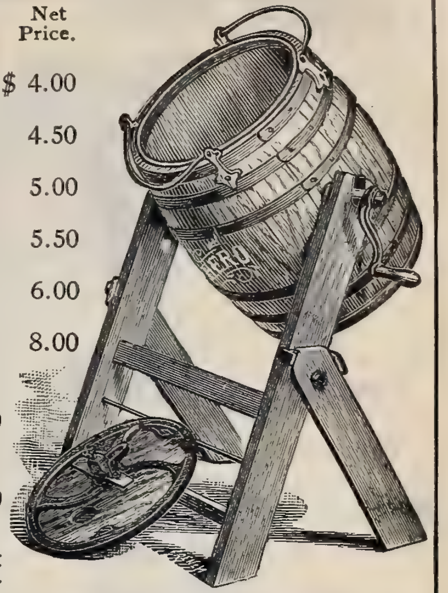

STODDARD CHURN
MFG'D BY THE MOSELEY & STODDARD MF'G CO. RUTLAND, VT.

PRICES—DAIRY SIZE.

	List Price	Disc't for Cash
No. 1 holds ten gallons; churns 4 gallons,	$ 8.00	$1.00
No. 2 holds fifteen gallons; churns 7 gallons,	9.00	1.00
No. 3 holds twenty gallons; churns 9 gallons,	10.00	1.25
No. 4 hold twenty-five gallons; churns 12 gallons,	12.00	1.50
No. 5 holds thirty-five gallons; churns 16 gallons,	14.00	1.75
No. 5½ holds forty-five gallons; churns 20 gallons,	17.00	2.00
No. 6 holds sixty gallons; churns 28 gallons,	20.00	2.50

THE HERO BARREL CHURN.

	List Price.	Net Price.
No. 0 holds 6 gals.; churns 3 gals., weight 33 lbs.	$ 8.00	$ 4.00
No. 1 holds 10 gals.; churns 4½ gals., weight 36 lbs.	8.50	4.50
No. 2 holds 15 gals.; churns 7 gals., weight 40 lbs.	9.00	5.00
No. 3 holds 20 gals.; churns 9 gals., weight 52 lbs.	10.00	5.50
No. 4 holds 25 gals., churns 12 gals., weight 72 lbs.	12.00	6.00
No. 5 holds 35 gals.; churns 16 gals., weight 90 lbs.	16.00	8.00
No. 6 holds 45 gals.; churns 22 gals., weight 102 lbs.	23.00	11.50
No. 7 holds 28 gals.; churns 12 gals., weight 115 lbs.	26.00	13.00

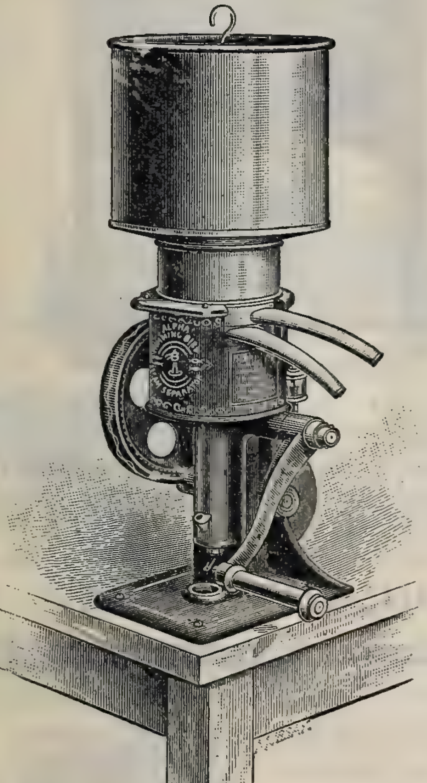


This churn is made of the best oak timber, has patent adjusting fastener for cover, does same work as other churns of this style, but sold at a much lower price.

The De Laval "Baby" Cream Separator.

Used by all the leading Agricultural Colleges and Experiment Stations.

The purpose of the Cream Separator is the expeditious and complete separation of cream from milk in the most practical manner possible. This separator consists of a cylinder-shaped steel bowl or vessel, encased within and mounted upon a frame provided with suitable gearing to acquire a high speed with a minimum expenditure of operating power. The whole-milk is fed into this bowl, the separation effected within it, and the cream and skim-milk are separately discharged from it, the discharge following within half a minute after the in-flow, while the machine may be used for a few minutes or as many hours—at a time—as may be necessary, according to the amount of work to be done.



Crank Humming-Bird.

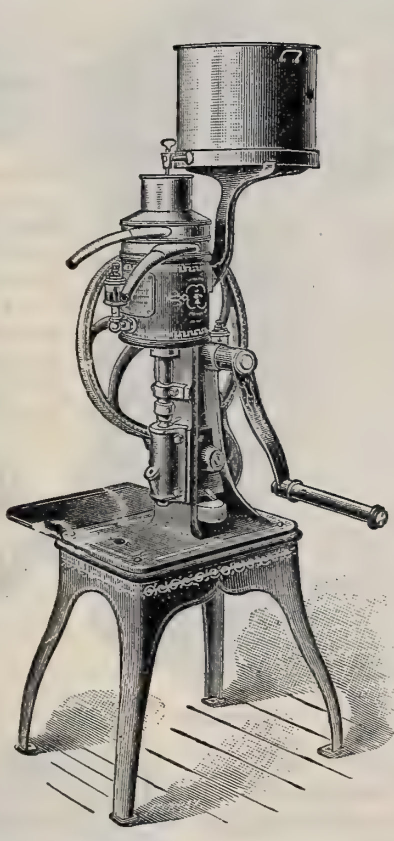
New Style No. 0.

De Laval Cream Separator.

Capacity, **225** lbs. per hour.

"Alpha" or "Disc" Bowl Type.

Price, $65.00.



Improved "Baby" No. 1.

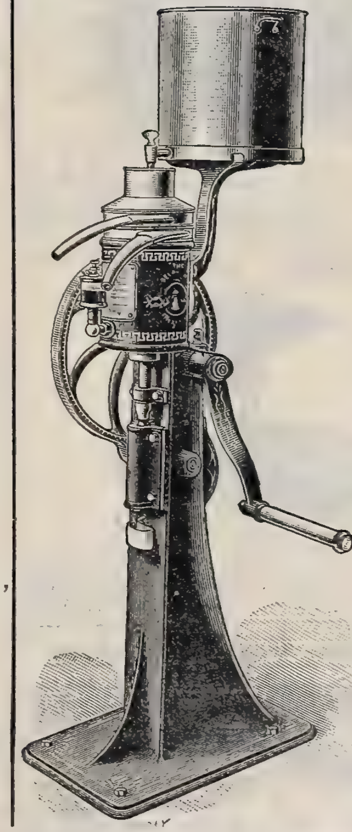
Iron-Stool Style.

De Laval Cream Separator.

Capacity, **325 to 350** lbs. per hour.

"Alpha" or "Disc" Bowl Type.

Price, $100.00



Improved "Baby" No. 2.

High-Frame Style.

De Laval Cream Separator.

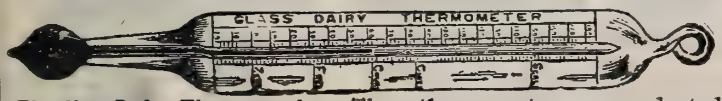
Capacity, **450 to 500** lbs. per hour.

"Alpha" or "Disc" Bowl Type.

Price, $125.00.

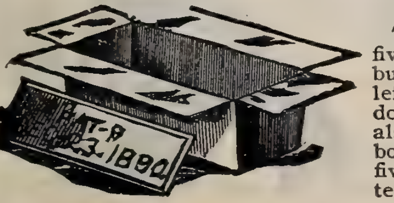
WE CAN FURNISH EITHER STYLE OF STOOL WITH No. 1 OR No. 2.

SEND FOR LARGE CATALOG.



Floating Dairy Thermometer. These thermometers are graduated especially for dairy use, and mark the degrees for freezing, churning, cheese-making and scalding.

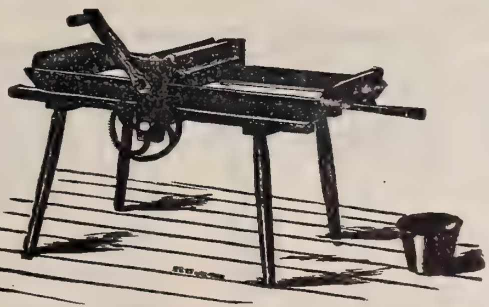
PRICE, EACH, 35 CENTS, POSTPAID.



BUTTER BOXES.

The Dumas square box holds five pounds; the only box that butter can be turned out of and left in good shape. Price, per dozen, all papered, 75 cts. We also have the five and ten pound boxes at 60 cents per dozen for five pound, and 75 cents for the ten pound.

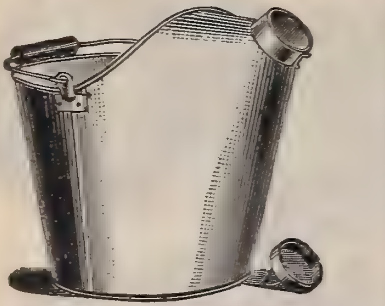
WATERS' BUTTER WORKER.



The purpose of working butter is to free it from buttermilk and distribute the salt evenly through it. The Waters differs from most butter workers principally in the point that the tray, with the butter, moves under a stationary roller instead of the roller travelling over the butter in the tray.

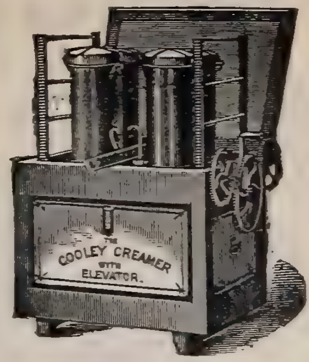
	Capacity.	List Price.	Dis. for Cash.
No. 0	1 lb. to 15 lbs.	$ 7.00	$1.00
No. 1	5 lbs. to 30 lbs.	8.00	1.00
No. 2	5 lbs. to 40 lbs.	9.00	1.25
No. 3	5 lbs. to 50 lbs.	10.00	1.50
No. 4	10 lbs. to 80 lbs.	14.00	1.75

Common Sense Milk Pail.

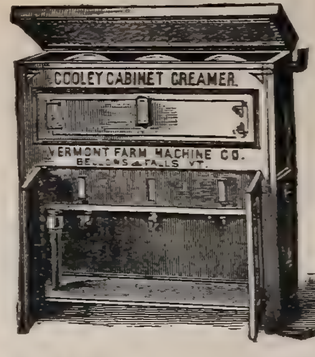


This pail is made of extra heavy tin. The strainer can be removed to clean or repair, and it is the best pail for all purposes made.

Price, = = $1.25



"Elevator" Style.



"Cabinet" Style.

COOLEY CREAMERS.

These are acknowledged the best apparatus for separating cream from milk by the gravity process. The "Elevator" Style is the most popular, as the cans can be raised and lowered into the water by the elevator. The "Cabinet" Style is preferable when milk is to be drawn off, from under the cream, before skimming. Each can mesaures 19 inches high by 8½ inches in diameter, and holds 18 quarts or the milk from two to three cows.

Prices, "Elevator" Style.
INCLUDING CANS.

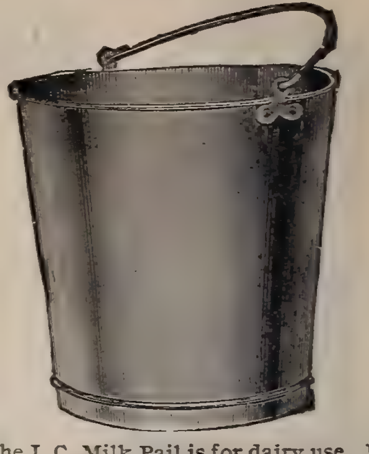
2 can size,	$32.00	8 can size,	$68.00
4 can size,	45.00	10 can size,	79.00
6 can size,	57.00	12 can size,	93.00

Prices, "Cabinet" Style.
INCLUDING CANS.

1 can size,	$20.00	4 can size,	$40.00
2 can size,	27.00	6 can size,	52.00
3 can size,	33.00	8 can size,	64.00

Larger Sizes Quoted on Application.

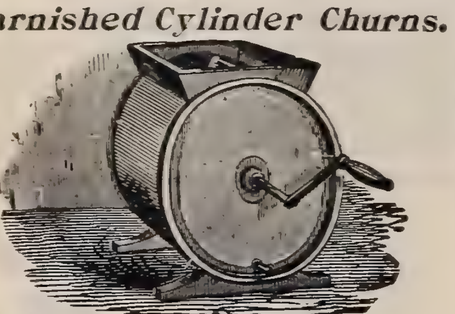
I. C. Milk Pail.



The I. C. Milk Pail is for dairy use. It is a special pattern. The seams are all soldered inside, and wire at the top. It has a rim to protect the bottom which also serves as a handle in tipping.

Price, 14 qts., 70c.; 12 qts., 60c.

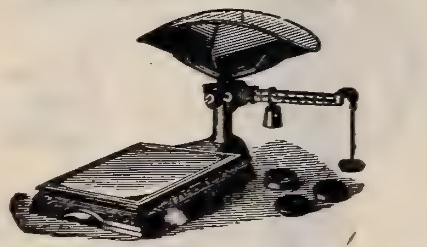
Varnished Cylinder Churns.



Designed for those having a Small Dairy.

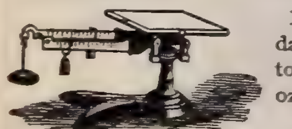
No. 1.	List price, $2.50	Discount for cash, $ .75
No. 2.	List price, 3.00	Discount for cash, .75
No. 3.	List price, 3.50	Discount for cash, .75
No. 4.	List price, 4.00	Discount for cash, 1.00

FARMERS' SCALES.



We offer for the use of farmers and dairymen and housekeepers, a convenient and low-priced scale, warranted accurate, weighing from ½ oz. to 240 pounds. **Single Beam, $4.50; Double Beam, $5.00**

Fairbank's Dairy Scales.



Indispensable for the dairy; has porcelain top; weighs from ¼ oz. to 25 lbs.

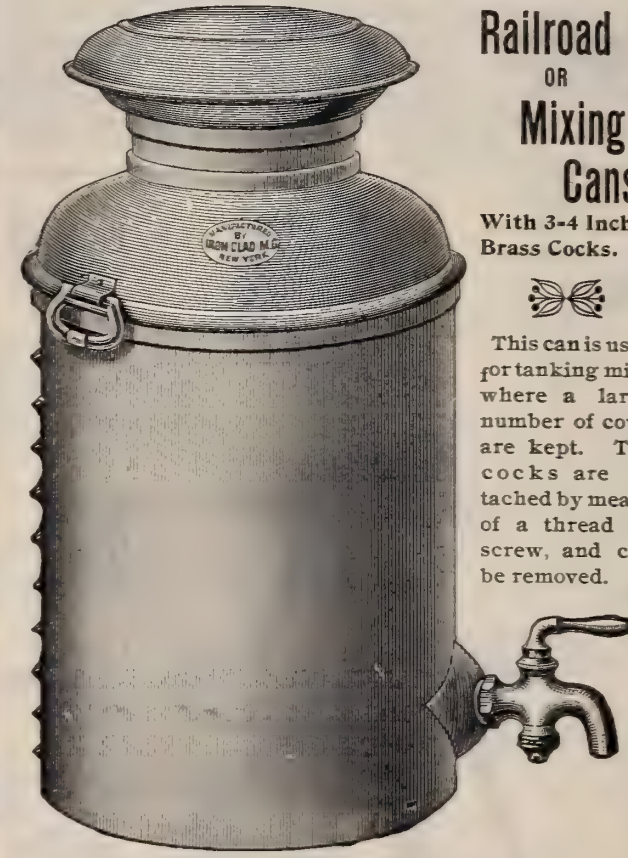
Net Price, $9.00

Railroad OR Mixing Cans

With 3-4 Inch Brass Cocks.

❧

This can is used for tanking milk where a large number of cows are kept. The cocks are attached by means of a thread or screw, and can be removed.

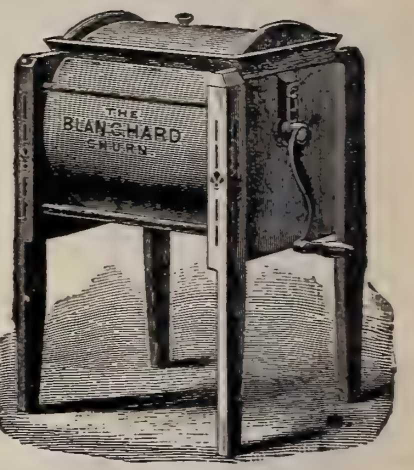


PRICES.

20 quarts,	$4.50	40 quarts,	$5.25	60 quarts,	$ 8.50
30 quarts,	5.00	50 quarts,	6.75	80 quarts,	12.00

Larger Sizes Furnished to order.

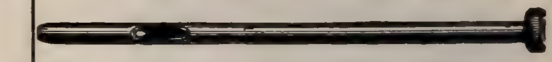
THE BLANCHARD . . CHURN . .



Has retained its reputation for over twenty years as being the best revolving dash churn made for ease of operation and superior butter-making qualities. Factory sizes quoted on application.

No. 3. Ch'ns 2 gal.	$6.00	No. 6. Ch'ns 12 gal.	$10.00
No. 4. Ch'ns 4 gal.	7.00	No. 7. Ch'ns 16 gal.	12.00
No. 5. Ch'ns 8 gal.	8.00		

MILKING TUBES.

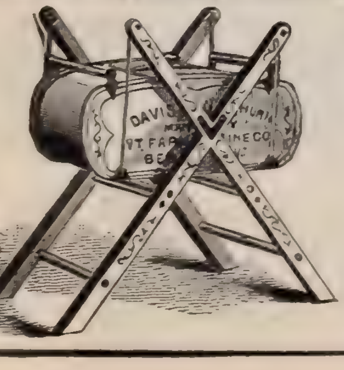


Made of White Metal; Will not Rust or Corrode.

No. 1.	Price, each, by mail,	- 25 Cents.
No. 2.	Price, each, by mail,	- 35 Cents.
No. 3.	Price, each, by mail,	- 45 cents.

THE DAVIS SWING CHURN.

The principle governing the process of butter-making in the Davis Swing Churn is that the particles of cream come in contact with each other only, and are not unduly beaten by floats. The butter comes in beautiful granules in the most desirable forms for washing with cold water or brine.



Price List—Complete, with Folding Frame, as Shown.

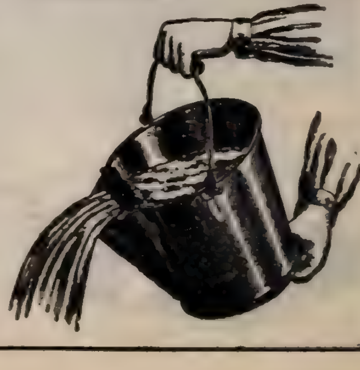
This is the regular frame, and is always sent unless specially ordered otherwise. Extra for Tilting Frame, $1.00.

Size.	Will Churn.	Wgt. lbs.	Price.
No. 1.	4 gal. or less.	55	$ 7.00
No. 2.	5 "	59	8.00
No. 3.	8 "	73	10.00
No. 4.	10 "	85	12.00
No. 5.	13 "	98	15.00
No. 6.	17 "	112	18.00
No. 7.	30 "	258	25.00
No. 8.	40 "	275	30.00
No. 9.	50 "	345	35.00

The Gem Combination Milk Bucket.

WITH REMOVABLE STRAINER.

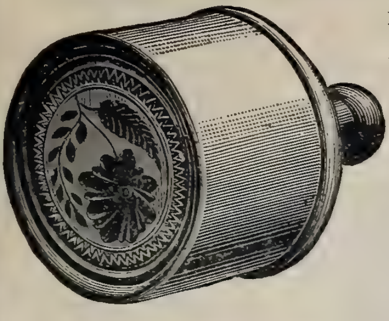
It has no equal in its simplicity. Made of the best IX Tin, with Steel Strainer Frame. The Gem Combination Milk Bucket can be used for milk with strainer, or the strainer can be removed by a single turn of the latch and the bucket used for any other purpose. The Strainer is constructed of Steel, with Fine Brass Wire Cloth, and can be readily converted into a cloth or muslin strainer by simply covering the frame with the cloth and inserting the frame in place.



PRICES.

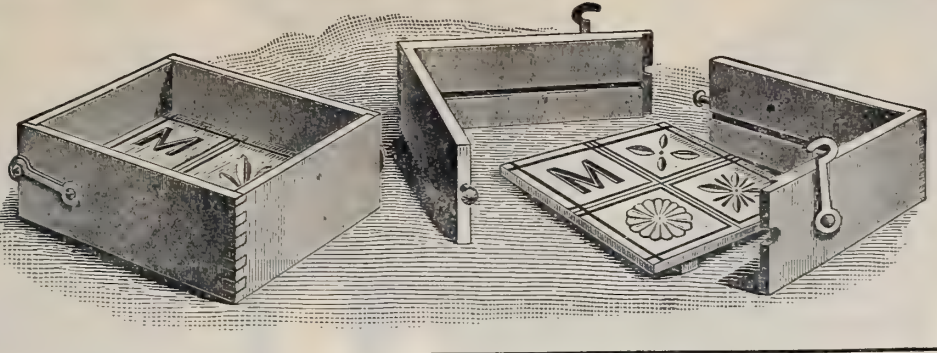
10 Quarts, each, 60c. 12 Quarts, each, 70c.
14 Quarts, each, 80c.

BUTTER MOULDS.



Round, ½ lb.,	35 cents.
Round, ¼ lb.,	20 cents
Round, 1-16 lb.,	15 cents.
Round, 1-32 lb.,	10 cents.
Hexagon Mahogany, 1 lb.,	75 cents.
Hexagon, Cedar, 1 lb.,	65 cents.

THE BLANCHARD BUTTER MOULD.

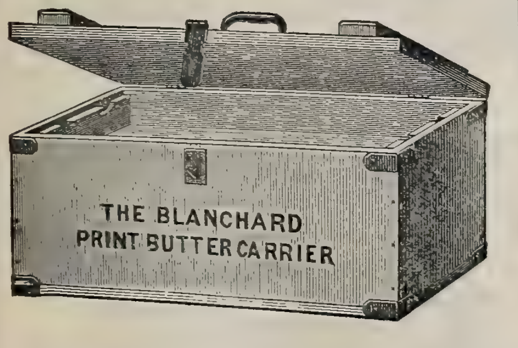


We keep this style in stock, and can recommend it as being first-class, while the price is much less than the Combination Mould.

PRICES.

½ lb., . .	$0 80
1 lb., . .	1.00
2 lb., . .	1.25

The Blanchard Print Butter Carrier.



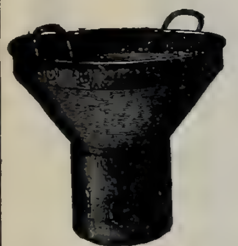
This Carrier is designed for use of dairymen who deliver their butter direct to the consumer. They are also used in shipping butter by express. Trays are made to fit butter moulded in the Blanchard or Combination No. 6 Moulds. They are well made and very strongly iron bound.

PRICES.

16 lb., each,	$1.50	32 lb., each,	$1.85
24 lb., each,	1.65	40 lb., each,	2.00

Fitted with Ice Box, 75 cents extra.

Iron Clad Tubular Milk Strainer.



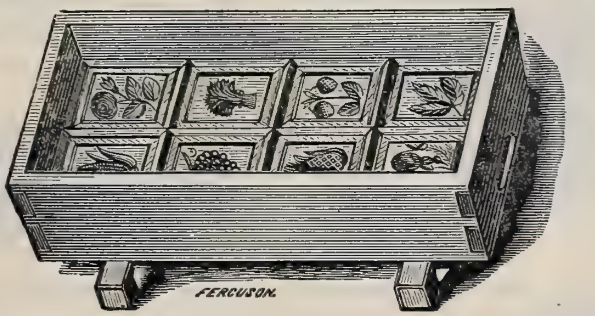
This is designed to be used in our railroad or mixing can. It fits perfectly and is so constructed that it is impossible to get any of the dirt into the milk. May be used with or without cloth.

Price, $2.25

COMBINATION BUTTER PRINT

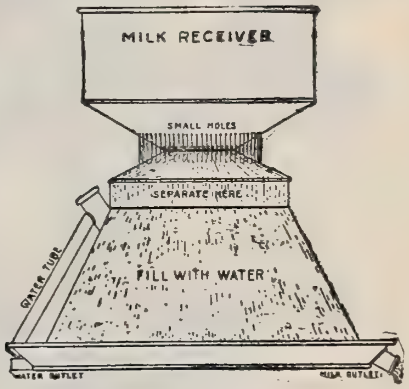
WITH MOULD CUTTERS AND PADDLE.

This Combination Print is extensively used by manufacturers of "gilt edged" butter. The cut shown represents No. 6 print in its mould, which holds two pounds, and is divided into eight cakes, one-fourth pound each, with a cutter, which goes with each print.



No. of Print.	No. of Cakes at each impression.	Capacity of Moulds in Pounds.	Capacity of each Cake in Ounces.	Dimensions of Mould in Inches.	Dimensions of each Cake.	Price.
1	3	1½	8	10x3½	3½x3½	$3.50
2	4	2	8	11x3¾	3¾x2¾	3.75
3	4	2	8	12x3	3x3	3.75
4	4	1	4	4½x5	2¼x2½	3.50
5	4	1	4	10x2½	2½x2½	3.75
6	8	2	4	10x4½	2¼x2½	4.50
7	6	1½	4	10x3½	3½x1¾	4.25
8	12	1¼	2	12x4	2x2	5.00
9	16	1½	1	10x3	1¼x1½	5.00
10	24	1½	1	10x4	1¼x1¾	5.25
12	8	4	8	11x5	2¾x2½	4.50

THE MODEL MILK COOLER.

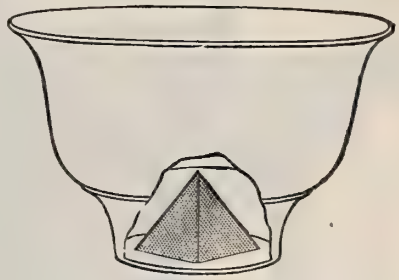


The Model Milk Cooler and Aerator does what no other cooler does, namely, thoroughly cools the milk and at the same time aerates it perfectly, so that it is ready to ship or peddle at once. No time is lost in stirring morning's milk and getting it ready for customers, as it is cooled as fast as milked.

No. 2.	Suitable for 10 to 15 cows,	cash retail,	$6.00
No. 3.	" " 25 to 40 cows,	"	7.00
No. 4.	" " 50 to 100 cows,	"	9.00

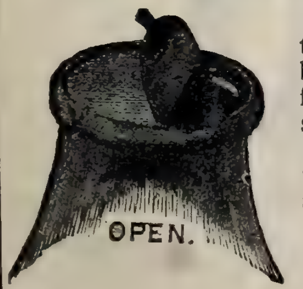
MORE'S PYRAMIDAL STRAINER

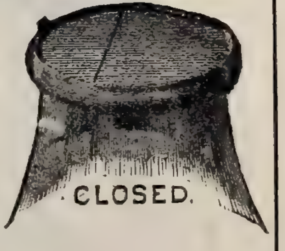
With base to stand on top of any creamery can.



The great need of the dairy at present is a Milk Strainer that will clean milk thoroughly and rapidly, is durable, and can be procured at a reasonable price. The Moor has all of these qualities. **Price, $1.50**

THE HEALTH MILK BOTTLE CAPS.





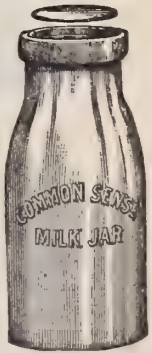
All caps, other than the Health Cap, must be removed with a fork, knife or some sharp instrument.

They cannot be removed with the thumb and finger. When once released the old style cap is almost invariably thrown away, leaving the contents of the bottle exposed to odors, and in no way meeting the objectionable features of an open receptacle. It costs no more than the ordinary cap. It will fit any standard milk bottle. It makes sealing and opening of bottle easy. Bottles can be kept sealed at all times. Keeps milk free from all odors. It is the most convenient cap on the market. **No knife or fork needed to remove the Health Cap.**

Price per 1000, 40 cents; 5000, 35 cents: 25,000, **30** cents.
Common Round Caps, 1000, 30 cents; 5000, 25 cents.

COMMON SENSE MILK BOTTLES.

THE ONLY WAY THAT MILK SHOULD BE HANDLED.



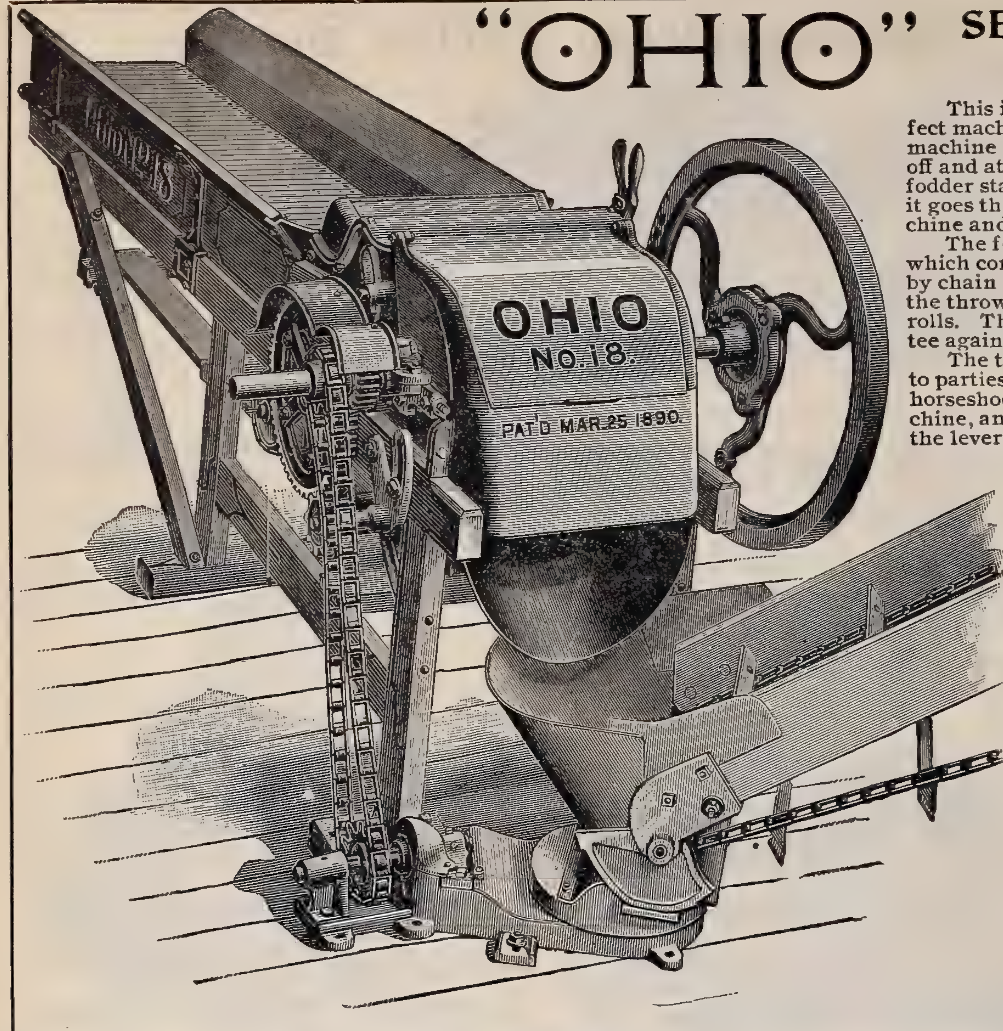
Few are the milk dealers who escape complaint from their customers. "What's the matter with your milk? It does not smell or taste right." Your assuring words that it is or was pure, sweet milk does not satisfy them, and they leave you to try some other milkman. The trouble is your tin cans. Rust will accumulate on tin, giving a bad odor to the milk. When the tin gets worn off, the iron being porous, it is impossible to eradicate taint, and your milk has an old musty taste and smell. It is exposed to dust, flies and odors of the streets, horse hair, and the countless undesirable odors that infest the atmosphere. The wonder is that the human stomach does not rebel in disgust from such an offering. These troubles, and many others, are eliminated by the use of the Common Sense Milk Bottle.

Price, 2 Quart, Doz.,	$1.50;	Gross, $17.00
Price, 1 Quart, Doz.,	.80;	Gross, 9.00
Price, 1 Pint, Doz.,	.60;	Gross, 7.00

Prices subject to change without notice.

"OHIO" SELF-FEED ENSILAGE CUTTER,

AND NEW METAL STRIP SWIVEL CARRIER.


OHIO No. 18
OHIO
No. 18.
PAT'D MAR. 25 1890.

This is the "Ohio" Ensilage cutter with travelling feed table. It is a perfect machine for cutting ensilage and dry feed. Cutting ensilage with this machine requires one man to throw off the wagon, one man to help throw off and attend to the machine. One or two men constantly pushing to get the fodder started is not necessary. The only point is to get it to the machine—it goes through itself. It will cut 33⅓ per cent. more than the regular machine and saves 75 per cent. of the feeder's time and labor.

The feed table is supplied with a continuous travelling chain or belt apron which converts the machine into a self-feeder. The travelling apron is driven by chain and sprocket wheels and is under control of the feeder by means of the throw-out lever located just in the rear of the lever that controls the feed rolls. The apron travels on five pairs of sprocket wheels, which is a guarantee against wear.

The throw-out levers are strong points of advantage, as it is well known to parties familiar in the use of such machines, that occasionally a pitchfork, horseshoe, or some other foreign substance mysteriously strays into the machine, and about the time it reaches the knives the feeder has only to catch the levers and throw the feed out.

SIZES AND PRICES.

No.	Number Knives.	Length Knives, Inches.	Lengths of cut, Inch.	Capacity Ensilage per Hour, Tons.	Power to Run Full Capacity, Horse Power.	Price.
13	4	13	¼, ½, ¾, 1	5 to 8	4 to 6	$ 95.00
16	4	16	¼, ½, ¾, 1	8 to 10	6 to 8	120.00
18	4	18	¼, ½, ¾, 1	10 to 13	6 to 10	155.00
20	4	20	¼, ½, ¾, 1	15 to 20	8 to 12	250.00
24	4	24	¼, ½, ¾, 1	20 to 25	10 to 12	300.00

NEW METAL-STRIP SWIVEL CARRIERS.

SIZES AND PRICES.

For
No. 13 Cutter, 12 ft. long, $45.00 Over 12 ft. long, extra per ft., $1.70
No. 16 Cutter, 12 ft. long, 45.00 Over 12 ft. long, extra per ft., 1.70
No. 18 Cutter, 12 ft. long, 45.00 Over 12 ft. long, extra per ft., 1.70

METAL-STRIP REVERSIBLE CARRIERS.

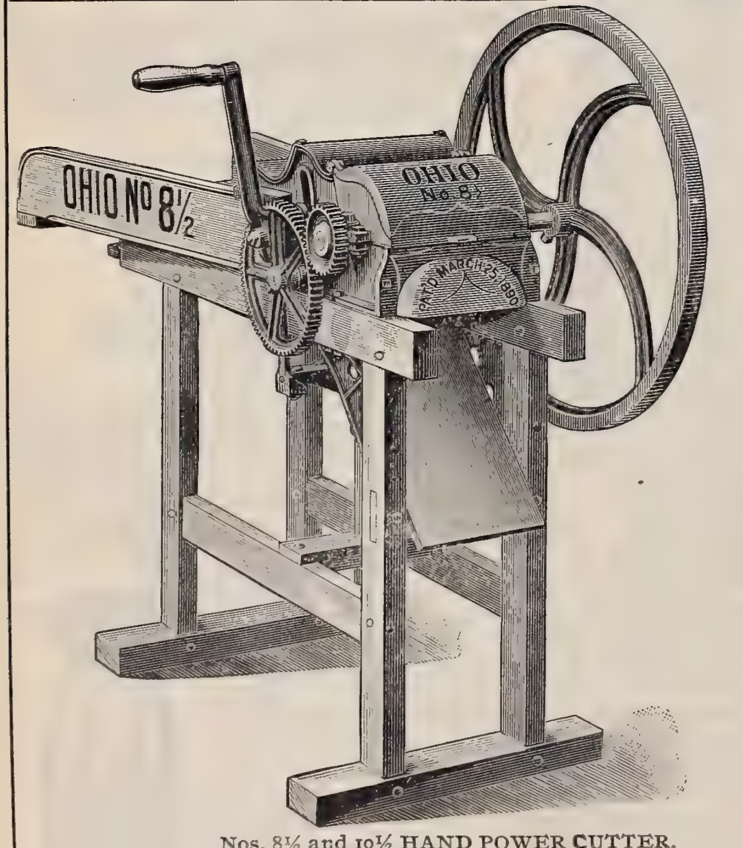
Straight and Angle Delivery or Straight-Away.

SIZES AND PRICES.

For
No. 11 Cutter, 12 ft. long, $33.75 Over 12 ft. long, extra per ft., $1.70
No. 13 Cutter, 12 ft. long, 37.00 Over 12 ft. long, extra per ft., 1.70
No. 16 Cutter, 12 ft. long, 37.00 Over 12 ft. long, extra per ft., 1.70
No. 18 Cutter, 12 ft. long, 37.00 Over 12 ft. long, extra per ft., 1.70
No. 20 Cutter, 12 ft. long, 45.00 Over 12 ft. long, extra per ft., 2.25
No. 24 Cutter, 12 ft. long, 45.00 Over 12 ft. long, extra per ft., 2.25

If wanted without angle delivery attachments, deduct
From Nos. 11, 13, 16 and 18 list $3.50 From Nos. 20 and 24 list, $5.60

Discount, 33 1-3c,



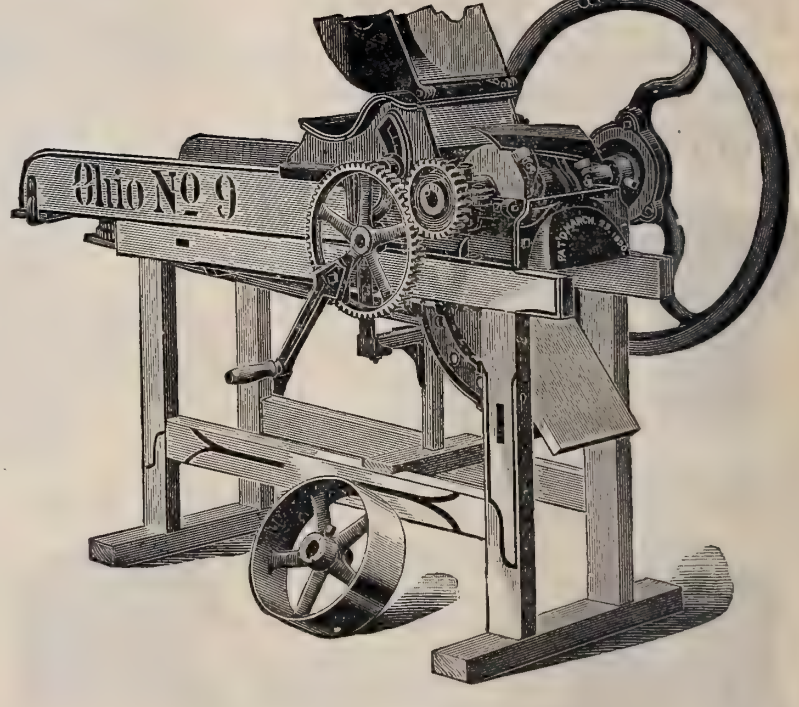
THIS is one of the best Hand Cutters and is designed for those without power. It can be changed to cut different lengths and will answer for cutting for stock and poultry.

Nos. 8½ and 10½ HAND POWER CUTTER.

SIZES AND PRICES.

No.	Length of Knives, Inches	Number of Knives	Lengths of Cut, Inches	Price
8½	8½	1	½, ¾, 1½	$18.00
8½	8½	2	¼, ⅜, ¾	20.00
10½	10½	1	½, ¾, 1½	23.00
10½	10½	2	¼, ⅜, ¾	25.00

Discount, 33 1-3 per cent.



No. 9 HAND OR POWER CUTTER.

THIS is a medium size cutter adapted for farmers having a large herd to cut food for and can be run by hand to good advantage when for any reason they do not want to get up steam. It is our best seller for hand work.

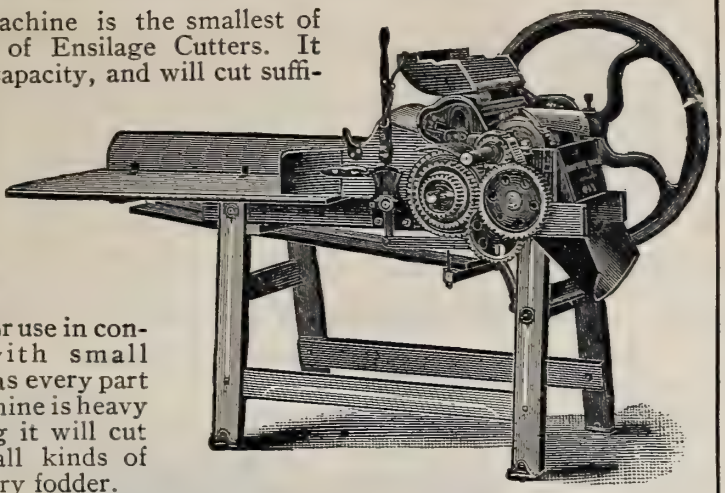
SIZES AND PRICES.

No. 9.	With safety fly wheel and pulley, two knives	$35.00
No. 9.	With safety fly wheel and pulley, four knives	40.00
	When furnished with extended knife shaft to place fly wheel or pulley on either side, extra, list	2.00

Discount, 33 1-3 per cent.

The Freman Feed and Ensilage Cutter.

No. 13.



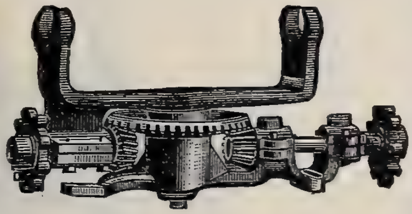
This machine is the smallest of our series of Ensilage Cutters. It has large capacity, and will cut sufficient feed for from 30 to 60 head of stock. As an ensilage cutter it is a most excellent machine for use in connection with small silos, and as every part of the machine is heavy and strong it will cut perfectly all kinds of green or dry fodder.

4 knives, each 13 inches, cuts ¼ inch, ½ inch, ¾ inch long. Weight, 550 lbs. WRITE FOR DISCOUNTS.

LIST PRICE, $65.00.

SWIVEL CARRIERS.

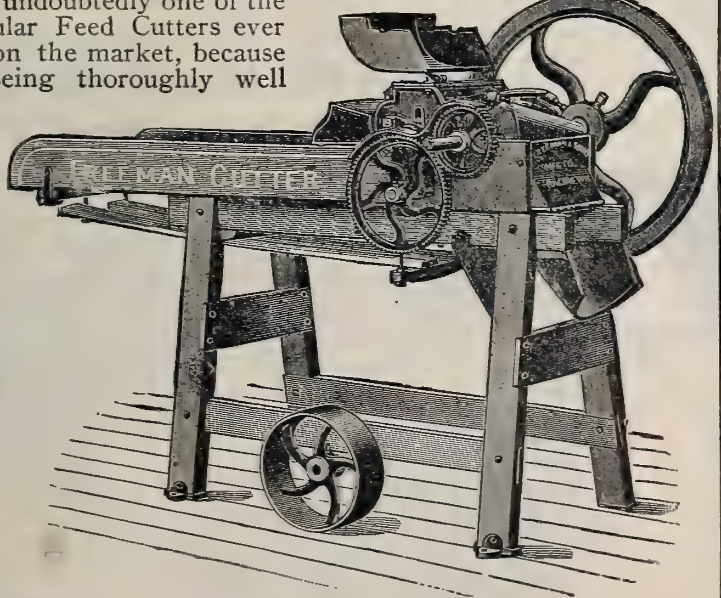
	12 Feet long, complete.		Additional Length, per foot.	
	Wt.	Price	Wt.	Price
For No. 11 Cutter	215	32 00	6½	1 50
For No. 13 Cutter	215	32 00	7½	1 60
For No. 16 Cutter	230	33 00	9	1 75
For No. 20 Cutter	310	36 00	12	2 00
For No. 24 Cutter	360	40 00	16	2 25



Swivel Carriers can be attached to any of the power machines. They will deliver either to the right, to the left, the front or at any intermediate point within the half circle, and can be raised or lowered as may be desired, and are far superior to any form of straight carrier. WRITE FOR DISCOUNT.

THE FREEMAN FEED CUTTER.

No. 11.



This is undoubtedly one of the most popular Feed Cutters ever placed upon the market, because besides being thoroughly well made in every particular, it is of a size that meets the most general demand.

In construction it is similar to our Cutters Nos. 7&8, except that it is built . . . . . much larger and stronger.

It is what might properly be termed a medium size power feed cutter, or a large size hand feed cutter, because, while it is built especially for a power cutter, by attaching a crank to one end of the cylinder shaft it can be run by hand with very satisfactory results. 4 knives each 11 inches.

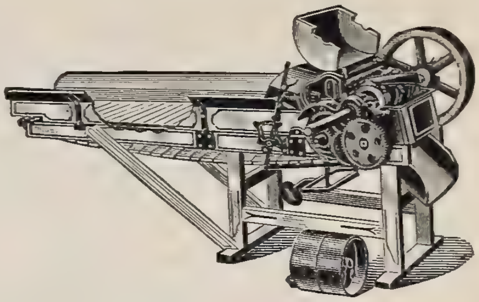
Will cut ¼ inch, ½ inch, ¾ inch, or 1 inch long. Weight, 410 lbs. WRITE FOR DISCOUNT.

LIST PRICE, $45.00.

The Freeman Feed and Ensilage Cutter

No. 16, With Travelling or Force Feed Table.

WE CAN FURNISH 13, 16, 20 or 24 INCH CUTTER WITH TRAVELLING TABLE.



The travelling table on this cutter reduces the labor of feeding more than one-half and enables the operator to feed the machine to its full capacity. The table must be used to be appreciated. These cutters are fitted with the adjustable cone feed gearing, the expansion gearing for driving the upper feed roll, the reversible cutting bar, and the safety stop lever for instantly stopping the feed for changing the length of cut without stopping the speed of the cylinder head.

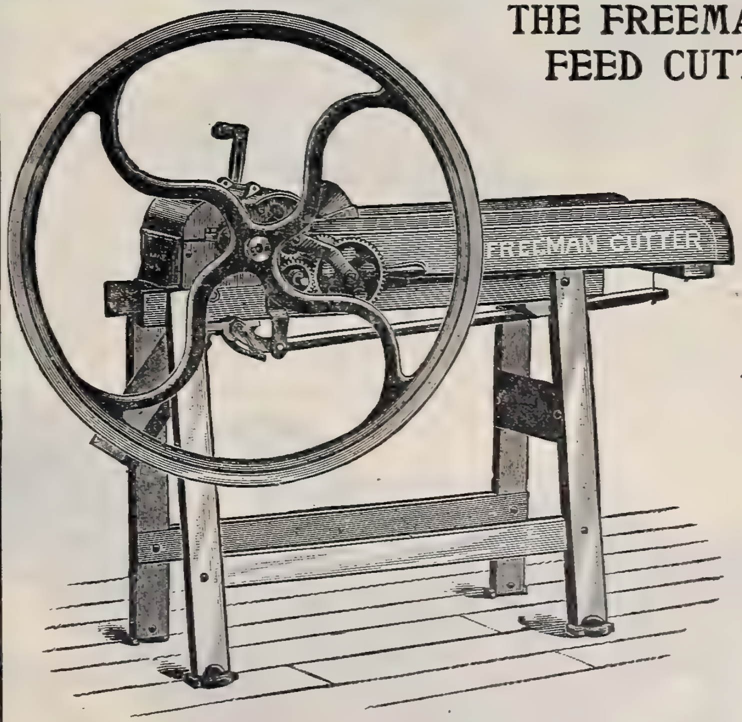
We can furnish either swivel or straight-away carriers for these cutters, and the swivel carrier can be attached to nearly all other makes of cutters.

These cutters are fitted with four knives, each 16 inches long, and will cut either ¼-inch, ½-inch or ¾-inch long. Weight, 600 lbs.

LIST PRICE, WITH TRAVELLING TABLE, $120.00
LIST PRICE, WITH COMMON TABLE, . 90.00

Write for Catalogue and Discount.

THE FREEMAN FEED CUTTERS.



Nos. 7 and 8.

These are the smallest machines in this line of Feed Cutters, but they contain all the important features of the larger machines such as are requisite to cutters of these sizes. They are not built to be run by other than hand power, consequently do not have the safety fly wheel, but instead are fitted with a large and heavy balance wheel which, together with the shearing cut of the knives, makes the machines very light running.

The length of the knives of the No. 7 Cutter is 8½ inches, and of the No. 8 Cutter 9½ inches. Will cut ¼ inch, ⅝ inch or 1 inch long. WRITE FOR DISCOUNT.

No. 8. 2 knives. Weight, 155 lbs. LIST PRICE, $30.00.
No. 7. 2 knives. Weight, 150 lbs. LIST PRICE, $24.00.

CORN FODDER.

ITS VALUE, and How to Handle and Feed It to the Best Advantage and Greatest Profit to the Farmer.

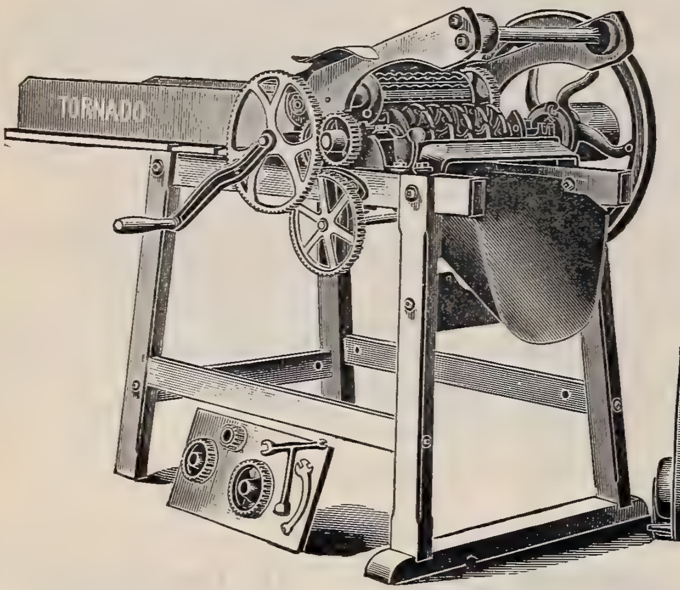
CORN FODDER is taking such a prominent place among rough feeds that the greatest effort should be put forth in trying to discover and bring into general use the best modes of handling and the most economical methods of feeding it. Until within a few years past but little attention was paid to this matter, but since the hay crop has become so uncertain almost every farmer has learned that it is one of the best rough feeds for horses, cattle and sheep. It has been accurately determined by experimenters that the food value of an acre of Corn Fodder, properly taken care of and utilized, is as great as an acre of hay.

The VALUE of the Corn Fodder is not in the blades nor in the husks, BUT IN THE STALK, as has been proven by so many of our farmers and by our different State experimental stations. It is, therefore, necessary to use some kind of a shredder that will not only cut but split the stalk at the same time. This the TORNADO CUTTER will do.

The cutting arrangement of the Tornado is made up of a series of little knives following each other spirally on the shaft, which, when in motion, gives a spiral movement. This peculiar motion cuts, splits and reduces the corn stalk to a soft, pulpy condition, leaving no hard or sharp edges to hurt the mouth of the animal and cause sore gums. This motion is also continuous and steady, there being no jerk or jar whatever, the advantage of which is very apparent.

We can furnish these machines in several sizes for both hand and power, and will mail, free, catalogue showing all sizes.

Improved Nos. 10 C and 12 D Combined Hand and Power Cutters.



THE TORNADO FEED CUTTER AND CORN STALK SLITTER NO 12 D
W.R. HARRISON & CO. MFRS MASSILLON, O.

List Price.

No. 10 C,	$55.00
No. 12 D,	65.00

Discount,
30 per cent.

Flat Feed Tables will be furnished with above cutters instead of feed troughs when so ordered.

These machines, as shown above, are built for both Hand and Power use, are of medium size, rapid sellers, and adapted to ordinary farm or dairy use. Both are arranged to cut ½, ¾, 1 and 1¼ inches, and when run by power should be given a speed of 1,000 to 1,200 revolutions of the cutting cylinder per minute, and in no instance when power is used should the speed fall below 1,000.

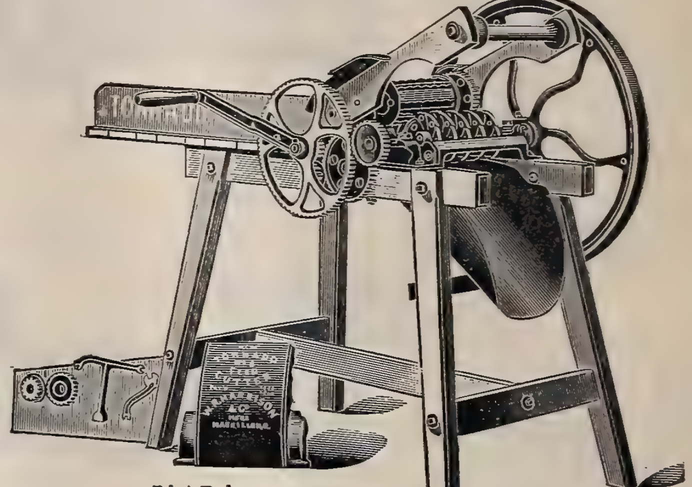
The No. 10 has a cutting cylinder 11 inches long and has a full 10-inch throat, while the No. 12 has a 13-inch cylinder and a full 12-inch throat. The No. 10, when run by power, has a maximum capacity of one to two tons of Hay or Dry Fodder and two to three tons of Green Ensilage per hour. The maximum capacity of the No. 12, when run by power, is two to three tons of Hay or Dry Fodder, and three to four tons of Green Ensilage per hour.

To attain the above results, it is, of course, necessary to give the cutters all the power and speed required, and feed them steadily and to their fullest capacity.

The power requisite for the No. 10 is one to two, and for the No. 12 three to four horse-power.

New and Improved No. 6 and No. 8 TORNADO.

FOR HAND POWER.

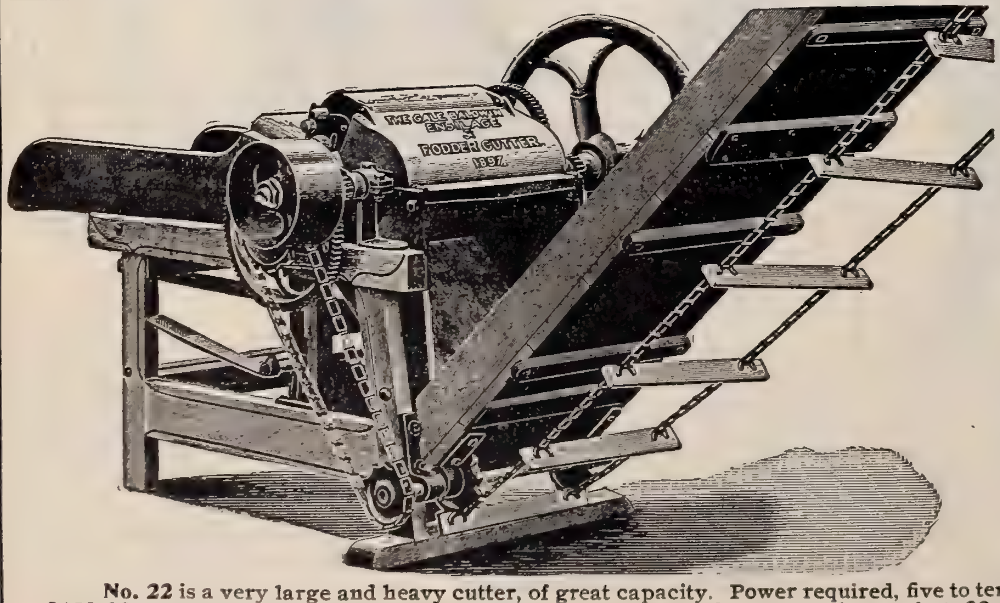


List Price.
No. 6, . . $30.00 No. 8, . . $35.00
Discount, 30 per cent.

These are our latest and improved Hand Power Cutters. They are simply constructed, very rigidly built, and, we believe, are the easiest operated and lightest running hand-power cutters made.

The base of the cutting apparatus, which rests on the frame, and which includes the gear standard, crank standard and journal boxes, is cast solidly in one piece, thereby securing great rigidity and simplicity. This insures durability, and the cutter cannot get out of order easily.

The cutting cylinder of the No. 6 is 7 inches in length, and that of the No. 8 is 9 inches. Both cutters are arranged to cut ⅜, ⅝, ⅞ and 1¼ inches. The first three lengths, are, however, best adapted to Corn Fodder, and the 1¼ cut should never be used on fodder, being intended only for Hay or Straw.


THE GALE-BALDWIN ENSILAGE & FODDER CUTTER. 1897.

GALE-BALDWIN ENSILAGE AND FEED CUTTER.

Length of Knives in Inches same as Number of Machine.
Each Size made with TWO KNIVES.

In the construction of this machine are found all the good features of the Improved Baldwin Feed and Ensilage Cutter, which have made that well-known machine so popular. The Gale-Baldwin is a strong feeder, and cuts with great ease and rapidity. The Beecher's Patent Rotary Cutter Head is used exclusively on this machine, and its long use on the power Baldwin machine has proved its superiority over all other devices for ease of adjusting the knives and durability.

DESCRIPTION OF SIZES.

No. 16.—Capacity for ensilage, 2½ to 5 tons per hour. Power required, one to two-horse engine. Speed, 500 to 600 revolutions per minute. Cut, ¼, ½, ¾ or 1 inch. Pulleys and wheels interchangeable.

Price of Cutter without Carrier	$60.00
Straight Delivery Carrier, 12 feet long or under	24.00
Angle Delivery Carrier, 12 feet long or under, with New Spout Carrier	32.00
Over 12 feet, extra per foot	1.50
Safety Treadle Lever	5.00

No. 18.—Capacity for ensilage, 50 to 100 tons per day. Power required, two-horse engine. Speed, 500 to 600 revolutions per minute. Cuts $\frac{3}{16}$, ⅜, ¾ or 1 inch. Gear also furnished to cut ½ inch if ordered.

Price of Cutter	$100.00
Straight Delivery Carrier, 12 feet long or under	24.00
Angle Delivery Carrier, 12 feet long or under, with New Spout Carrier	32.00
Over 12 feet, extra per foot	1.50
Safety Treadle Lever	5.00

No. 22 is a very large and heavy cutter, of great capacity. Power required, five to ten-horse engine. Length of cut same as No. 18. Price of machine, **$150.00** Straight Delivery Carrier, 12 ft. long or under, **$30.00.** Over 12 ft., per foot, **$2.00.** Safety Treadle Lever, **$6.00.**

Discount on Cutters, 30 Per cent. On Carriers, 20 Per Cent.

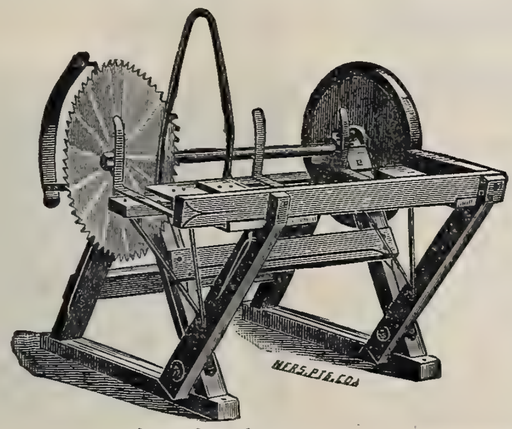
Improved Wood and Pole Saws and Frames

THE illustrations below show our various styles of Wood and Pole Saws and Frames. These are substantial machines, well made, and of good materials throughout. Wood saw frames have the balance wheel on the saw arbor and are intended for sawing cord wood. Pole saw frames have the balance wheel on a separate arbor below the table, so that they can be used for sawing long poles as well as cord wood. We furnish both styles of these machines with either tilting or sliding table.

The tilting table is pivoted so that it balances perfectly and is easy to handle. The sliding table is fitted with grooved rollers which run on a "V" shaped track and is very easy to operate. The arbors are true and heavy. They run in long babbitted bearings and are fitted with a 75-pound balance wheel. On pole saw frames the connection between the two arbors is by an independent belt.

NOTE.—All our Wood and Pole Saw Frames are made **right hand,** unless otherwise ordered. As there are so many different styles and sizes of saws we do not carry them all in stock, and at prices named below we ship from factory and the purchaser pays the freight.

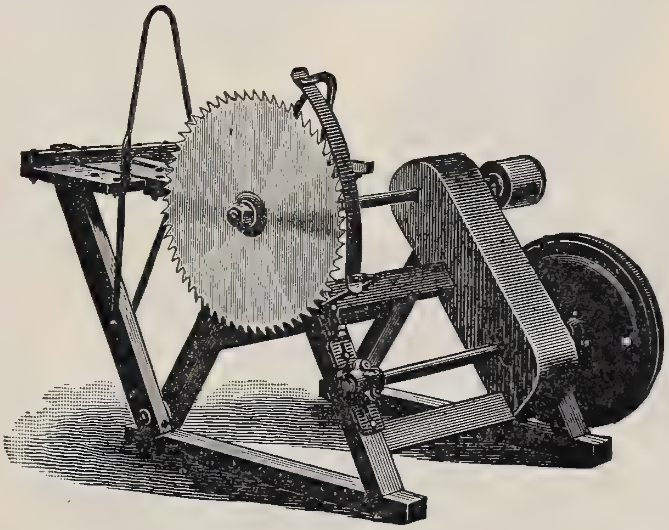
TILTING TABLE WOOD SAW. Weight, 220 lbs.



Diameter of Saws.	List Price of Tilting Table Wood Saws.	Diameter of Saws.	List Price of Tilting Table Wood Saws.
20 inches	$40.00	26 inches	$47.50
22 "	42.50	28 "	50.00
24 "	45.00		

Discount, 40 per cent. For cash, 5 per cent extra.

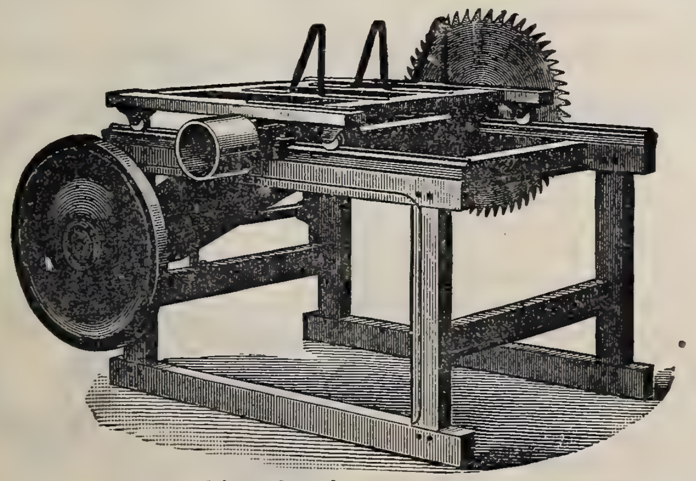
TILTING TABLE POLE SAW. Weight, 280 lbs.



Diameter of Saws.	List Price of Tilting Table Pole Saws.	Diameter of Saws.	List Price of Tilting Table Pole Saws.
20 inches	$47.50	26 inches	$55.00
22 "	50.00	28 "	57.50
24 "	52.50		

Discount, 40 per cent. For cash, 5 per cent extra.

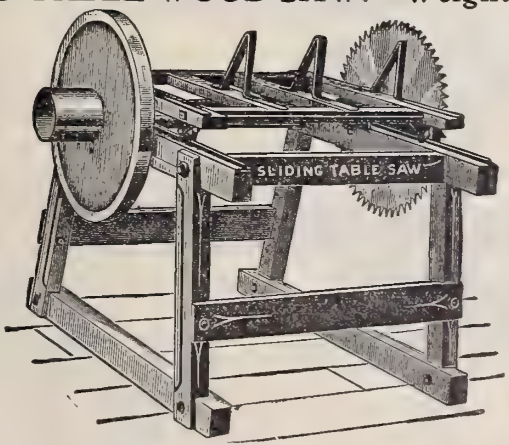
SLIDING TABLE POLE SAW. Weight, 310 lbs.



Diameter of Saws.	List Price of Sliding Table Pole Saws.	Diameter of Saws.	List Price of Sliding Table Pole Saws.
20 inches	$50.00	26 inches	$57.50
22 "	52.50	28 "	60.00
24 "	55.00		

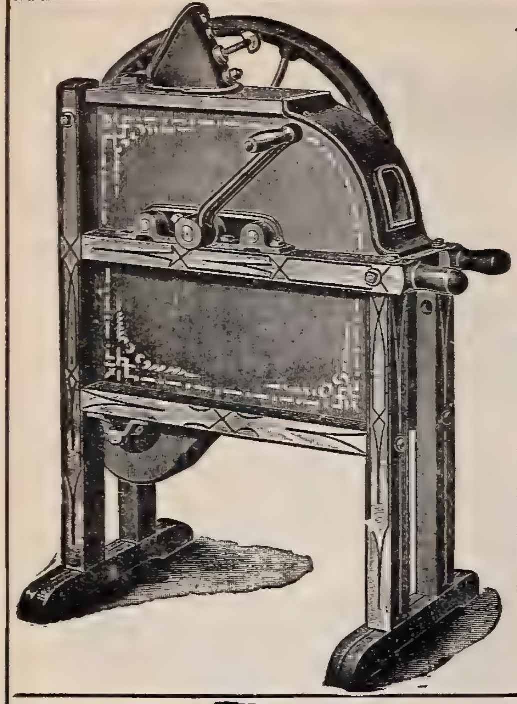
Discount, 40 per cent. For cash, 5 per cent extra.

SLIDING TABLE WOOD SAW. Weight, 240 lbs.



Diameter of Saws.	List Price of Sliding Table Wood Saws.	Diameter of Saws.	List Price of Sliding Table Wood Saws.
20 inches	$42.50	26 inches	$50.00
22 "	45.00	28 "	52.50
24 "	47.50		

Discount, 40 per cent. For cash, 5 per cent extra.



Wisconsin Valley Corn Sheller.

STRICTLY HIGH GRADE.

This is unquestionably the most popular type of hand corn sheller made, and as improved and now manufactured it combines every desirable feature to make it a PERFECT sheller.

The frame is made of hard wood and is bolted together. The shafting is steel, and runs in bored bearings which are bolted to the frame. Great care is taken in every detail of construction, and the entire machine is tastefully ornamented and handsomely finished.

Price, $7.00.

Discount for Cash, 50 cents.

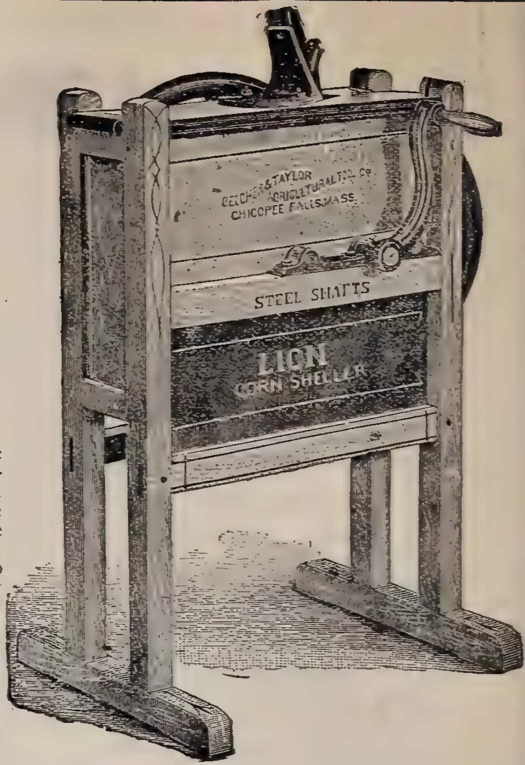
LION CORN SHELLER

Is a Rapid, Easy Working and Smooth Running Sheller, Shelling all kinds of Corn.

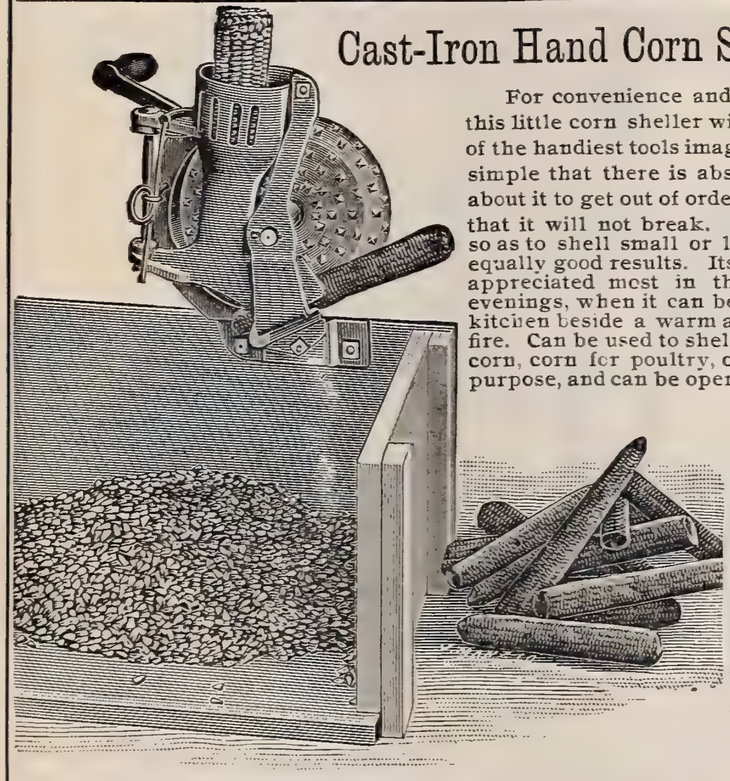
Made with a heavy Balance Wheel, Steel Shafts. Adjustable Iron Hopper with Steel Springs. Solid Side Bearings, which hold the shafts firmly in position. Gearing all inside, and so made that the corn cannot get into it. Made only with our Improved Separator.

Retail Price, $12.00.

Discount for Cash, $2.00.



Cast-Iron Hand Corn Sheller.



For convenience and general utility this little corn sheller will be found one of the handiest tools imaginable. It is so simple that there is absolutely nothing about it to get out of order, and so strong that it will not break. Can be adjusted so as to shell small or large ears with equally good results. Its value will be appreciated most in the cold winter evenings, when it can be taken into the kitchen beside a warm and comfortable fire. Can be used to shell pop corn, seed corn, corn for poultry, or for any other purpose, and can be operated by a child.

The adjusting shell is held against the ear of corn by a spring, the tension of which is easily & quickly adjusted. This shell forces the ear of corn against the shelling wheel and causes the ear to revolve so that the corn is shelled from the ear clean.

Net Cash Price only $1.50.

THE YANKEE Corn Sheller.

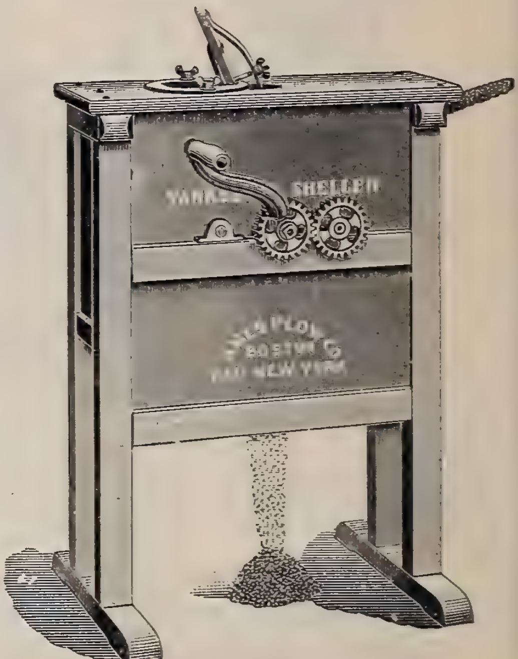
◉ ◉ ◉

This favorite corn sheller has been on the market for many years and has always given entire satisfaction. It is made so that one person can operate and feed it at the same time. It is also furnished with a blower or separator, which separates the cob and hulls from the shelled corn.

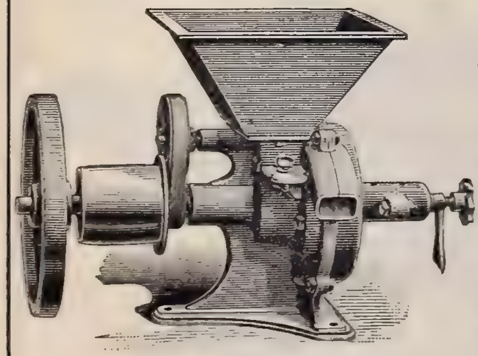
◉ ◉ ◉

List Price with Separator, $8.00.

Discount for Cash, $1.00.



DAISY POWER GRIST MILL.



This is a new mill, and is designed for farmers feeding from 25 to 50 animals. Will grind corn meal, chop, cotton seed or any kind of small grain, and will grind it fine or coarse. The mill is not provided with cob crusher and is not suited to grind ear corn or cob.

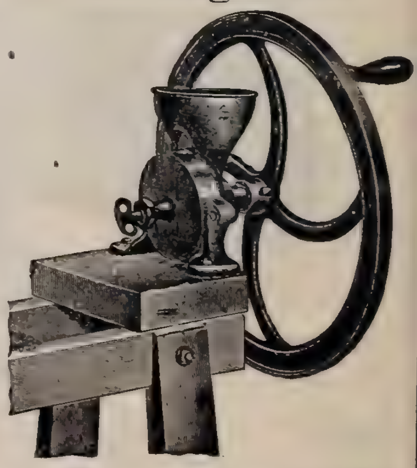
Has long bearings, best quality babbitt boxes, turned pulley 5 x 5 inches, balanced fly-wheel, and is in every way thoroughly first class.

The diameter of the grinding plates is 9 inches, and each mill is supplied with one extra set of plates without additional cost.

Power, 4 to 8-horse engine, or can be run successfully by tread or sweep horse-power. Capacity, 20 to 40 bushels per hour, according to power applied and condition of the grain. Speed, 1,200 to 1,800 revolutions per minute. Weight, 200 pounds.

List Price, $30.00. Discount for cash, 33⅓ per cent.

Cast-Iron Hand Grinding Mill.

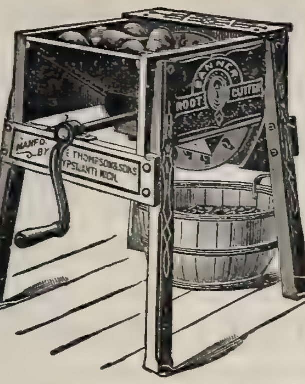


Every country home should be supplied with one of these little grist mills. They are perfect machines, having removable hard iron burrs, which are ground true, and which can be adjusted so as to grind to any degree of fineness. They will grind corn, wheat, rye, peas, salt or anything else which it is desirable to grind; so that one may have fresh corn meal, graham flour, hominy and fine table salt at any or all times.

A most useful machine for any one, but especially desirable in sparsely settled districts where custom mills are not within a convenient distance, or in new countries where there are no mills. Furnished with one set of burrs only. Extra burrs may be ordered with the mill or may be obtained later and can be easily put in place. The machine can be bolted to a table, a bench or any other convenient place. Weight, 30 lbs.

List Price, $5.00. Discount for Cash, $1.00.

The Banner Root and Vegetable Cutter.


BANNER
ROOT CUTTER
MANFD BY E. THOMPSON & SONS YPSILANTI MICH.

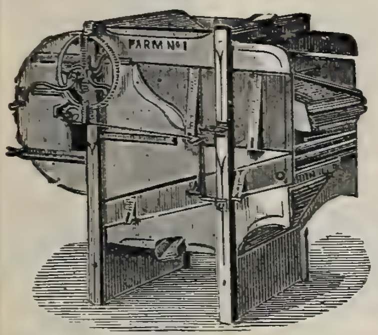
The "Banner" Root Cutter is, without question, the best ever invented. It contains features found in no other machine. It has a self-feeder; separates the dirt from the cut feed, and leaves the cut food in such condition that the stock cannot choke. The pieces ate cut in long half-round slices, and are not crushed, ground or torn; even young lambs can safely be fed with roots cut with the "Banner" Cutter.

PRICES.

No. 20.	Hand power, capacity 30 to 50 bushels an hour,	$11.00
No. 15.	The above fitted with pulley power, capacity 60 to 80 bushels an hour,	13.00
No. 16.	Power cutter, capacity 120 to 180 bushels an hour,	28.00

Discount for cash, $1.00.

The Centennial Fanning Mill.

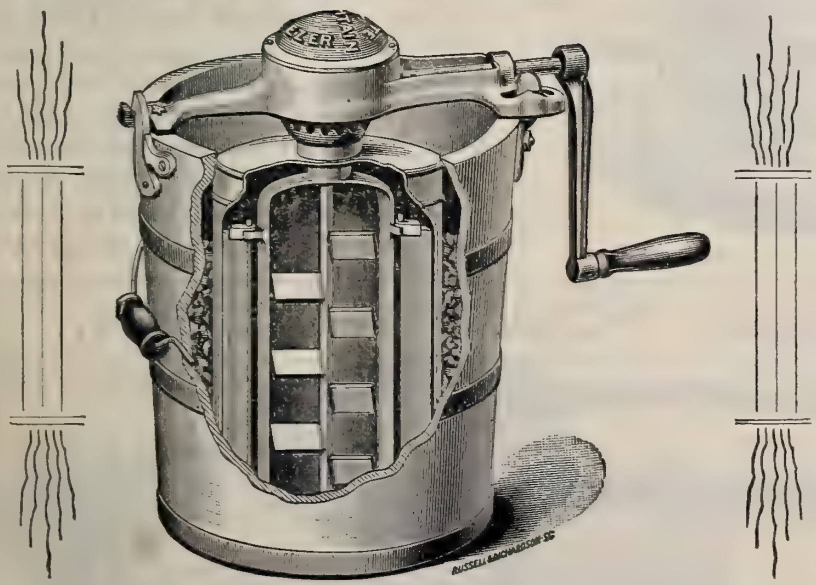


The Most Perfect Cleaner, Grader and Separator of all Grain and Seeds.

The Centennial is an excellent chaffer, having plenty of wind and shake. Having two shoes it carries more screens than any other mill in the market. It will separate oats and all seeds, such as pigeon grass, wild buckwheat, cockle, cheat, and other wild seeds from wheat at one operation. The best mill for all purposes in the market.

List Price, $20; discount for Cash, $4.

White Mountain Ice Cream Freezer.

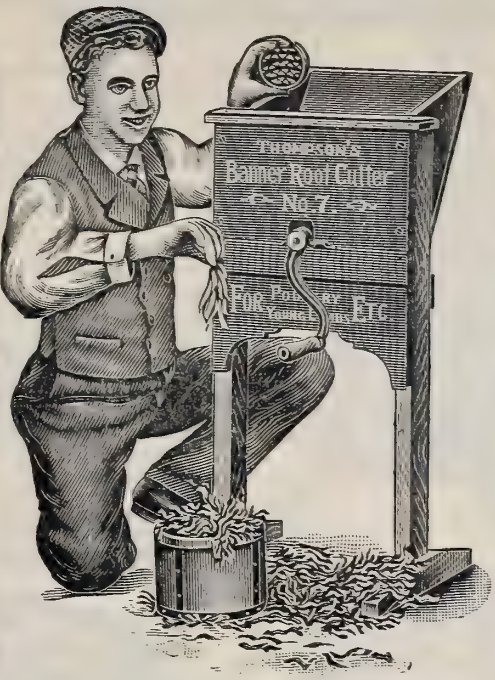


These Freezers are imitated, but not equalled. There are cheaper freezers in price than the White Mountain, but not so good.

2 quart, net price,	$1.75	10 quart, net price,	$5.75
3 quart, "	2.00	12 quart, "	7.25
4 quart, "	2.30	15 quart, "	8.50
6 quart, "	3.00	20 quart, "	11.00
8 quart, "	4.25	25 quart, "	13.50

No. 7, Banner Root Cutter.

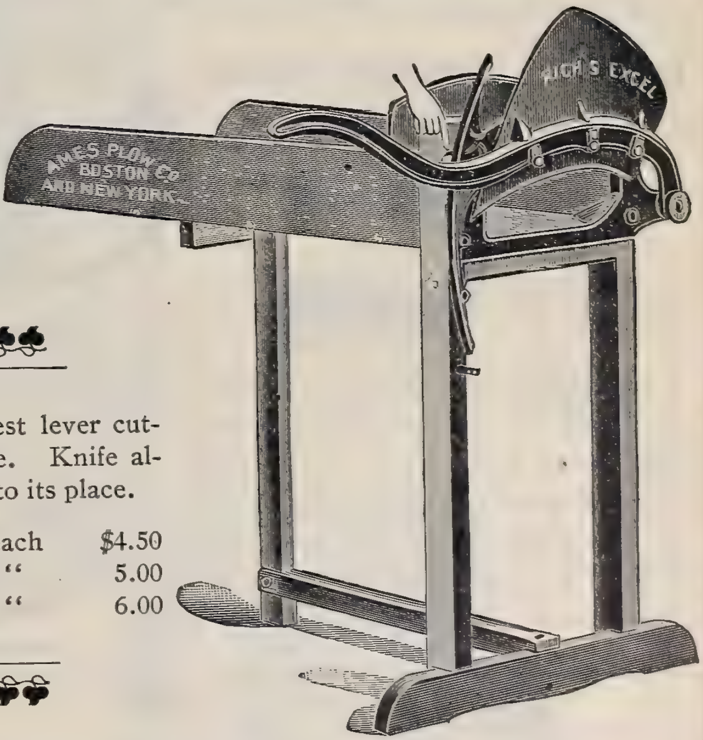
FOR POULTRY KEEPERS.


THOMPSON'S
Banner Root Cutter
No. 7.
FOR POULTRY YOUNG LAMBS ETC.

Cuts all kinds of Roots, Beets, Carrots, Turnips, Potatoes, Apples, etc., leaving them as fine as shavings. Vegetable treated in this way and fed in the winter, will not only produce eggs, but keep the poultry in a healthy condition. It is a fast cutter and easy to operate.

Net Cash Price, $5.00

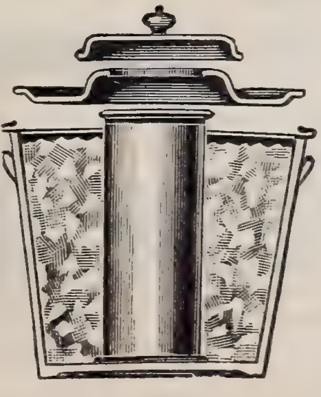
The Rich Lever Cutter.


RICH'S EXCEL
AMES PLOW CO BOSTON AND NEW YORK

The best lever cutter made. Knife always up to its place.

No. A, each	$4.50
No. B, "	5.00
No. C, "	6.00

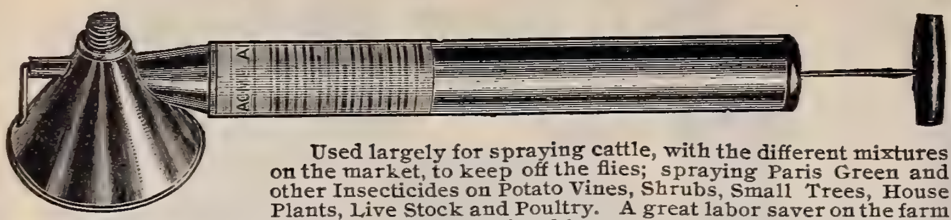
The XX Century Freezer.



The XX Century Freezer freezes in thirty to forty minutes without labor. No crank to turn; simply put the cream in the can, pack it with ice, and after stirring it two or three times let it stand, and you have as nice cream as ever was made. This freezer has been tested for two years.

Prices—2 quart,	$1.50
3 quart,	1.75
4 quart,	2.00
6 quart,	3.00

THE ACME ATOMIZER.



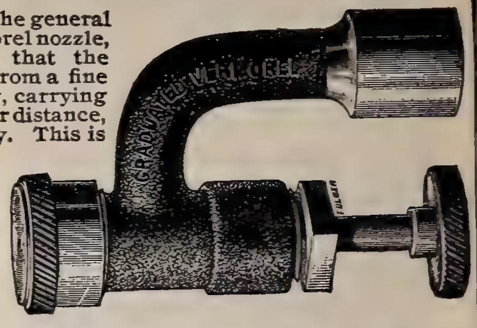
Used largely for spraying cattle, with the different mixtures on the market, to keep off the flies; spraying Paris Green and other Insecticides on Potato Vines, Shrubs, Small Trees, House Plants, Live Stock and Poultry. A great labor saver on the farm and in every garden, barn, greenhouse, orchard and hennery. It will apply the finest possible spray on any object desired and exterminate any kind of insect life. Weighs only one pound. Can holds one and one-half pints. Well and simply made of tin or brass, combined into the strongest possible shape, it cannot come apart, and easily cleans itself when turned upside down. Indispensable on every farm.

Price, Tin, 50c; Tin, with Brass Cup, 75c.

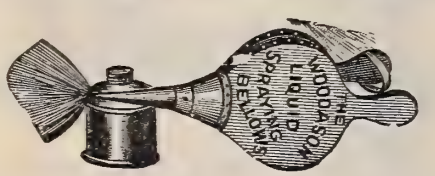
Myers' Graduating Spray Nozzle.

This is constructed on the general plan of the regular Vermorel nozzle, with the improvement that the spray can be graduated from a fine mist up to a solid spray, carrying the stream a much greater distance, or can be shut off entirely. This is accomplished by adjusting the screw plunger by means of thumb nut. The degorger is operated by the screw pluger instead of spring.

Price, 85cts.



WOODASON'S LIQUID SPRAYER.

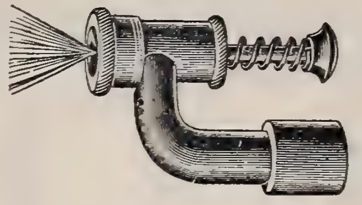

THE WOODASON LIQUID SPRAYING BELLOWS

For the destruction of insects, rust, smut, mildew, blight, rot, etc., also for spraying cattle to protect them from flies.

Price, Large, $2.00; Small, $1.25

IMPROVED VERMOREL NOZZLE

WITH DEGORGER.



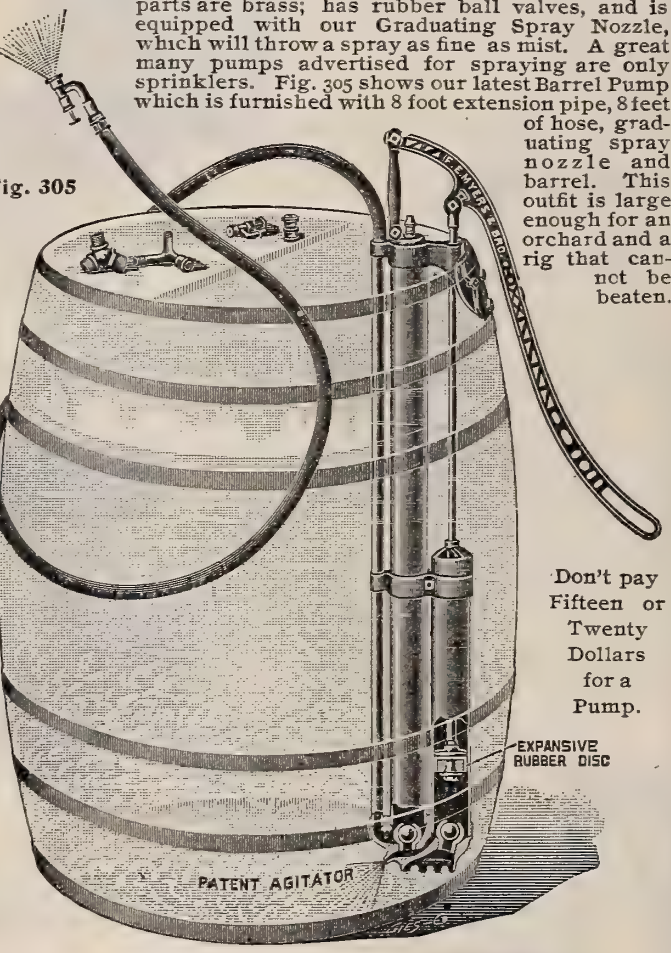
Arranged with stuffing box, so that the liquid will not wet the operator while being used; fitted for 1-2 inch male end or 1-4 inch pipe. Each nozzle is furnished with two caps, with different sized openings, for coarse or fine spray. **Price, 85 Cents.**

MYERS' BRASS SPRAY PUMP.

This Pump has More Real Advantages than are contained in any other pump on the market.

This pump is constructed of material that is not affected by the poisonous arsenites used in the different formulas for spraying fruit trees, vines and shrubbery. The cylinder and all working parts are brass; has rubber ball valves, and is equipped with our Graduating Spray Nozzle, which will throw a spray as fine as mist. A great many pumps advertised for spraying are only sprinklers. Fig. 305 shows our latest Barrel Pump which is furnished with 8 foot extension pipe, 8 feet of hose, graduating spray nozzle and barrel. This outfit is large enough for an orchard and a rig that cannot be beaten.

Fig. 305

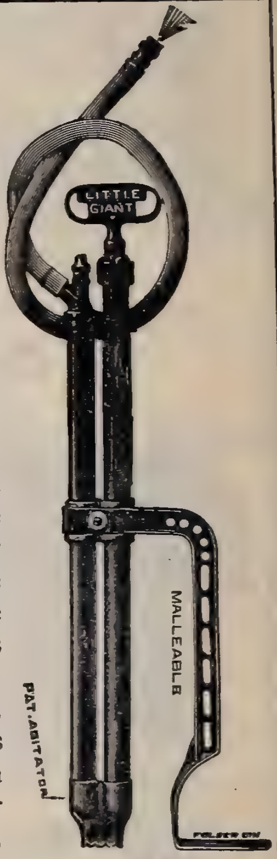


Don't pay Fifteen or Twenty Dollars for a Pump.

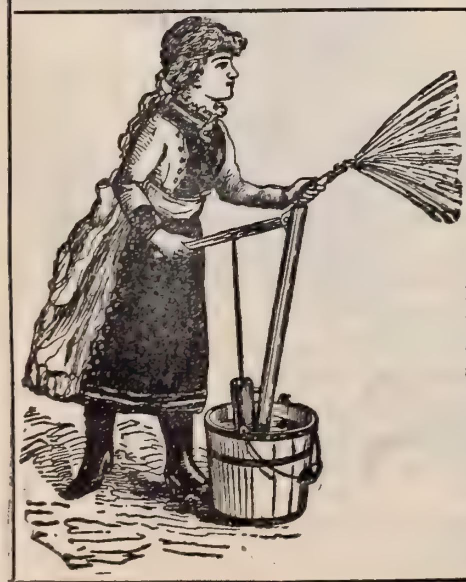
PRICE, - - - $10.00

Brass Bucket Spray Pump.

This pump is constructed entirely of brass, a metal that is not affected by the poisonous preparations used in spraying. The labor of pumping is all done on the downward stroke of the pump. Has large air chamber, and ball valves. The pressure is held uniformly in the air chamber and on the hose, so that the nozzle throws a continuous spray and is not offected by the movement of the plunger. Will throw a solid stream 50 feet. This is the best hand pump we have, and is very handy for washing windows and sprinkling lawns where there is no water pressure. Has foot rest as shown, best hose and spray nozzle. **Price, $4.00**



No. 327 1-2



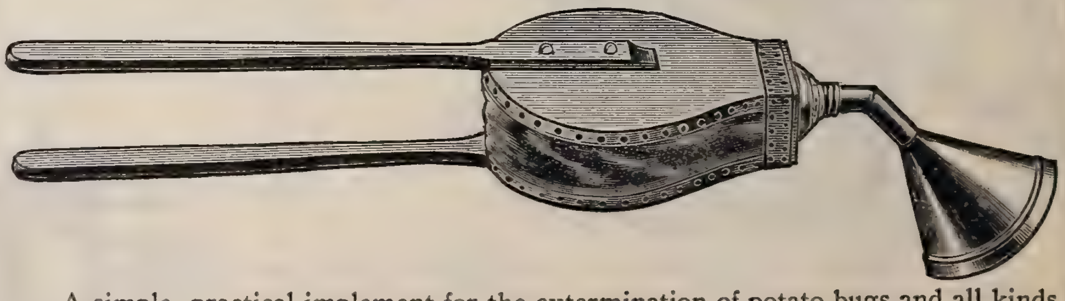
DAISY TIN FORCE PUMP.

❦

This is a good low-priced force pump; used for sprinkling vines and shrubs, also used for whitewashing and other similar uses. Made of tin and has two nozzles.

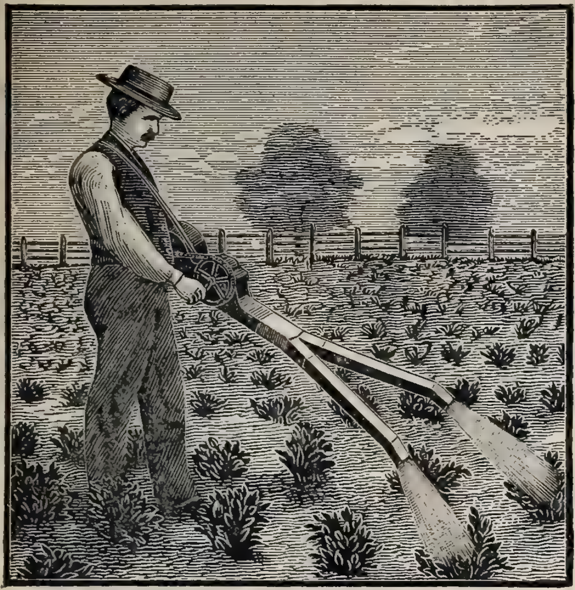
Net Price, $1.00

ACME POWDER GUN.



A simple, practical implement for the extermination of potato bugs and all kinds of insects, flies, etc., the pests of every house and garden. It will handle all insecticides in their dry state—Pure Paris Green, Hellebore, Persian Insect Powder, etc. It is very effective in the destruction of Potato Bugs, Currant Worms, and all like pests. Is well made, with a hardwood head block, hardwood handles, best leather for the bellows, (an extra elbow is furnished to tilt the funnel for getting under the leaves of plants and shrubs) and is well finished throughout. Every farmer should have one.

Net Price, $1.00

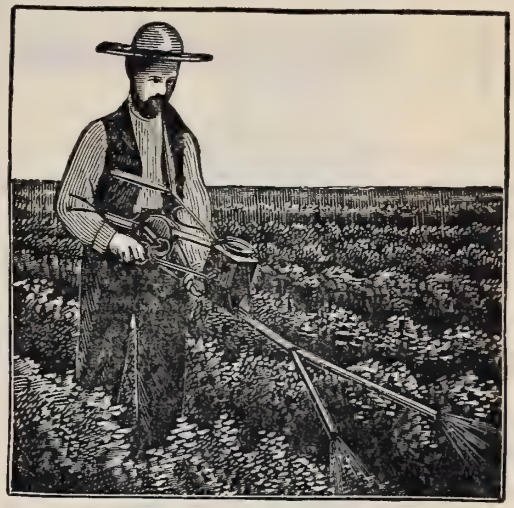


HOTCHKISS DRY POWDER GUN.

For applying clear Paris Green and other dry insecticides for destroying potato bugs and all other injurious insects. It does away with the slow, laborious process of applying mixtures in water or plaster. The process is a quick and effective way, and every farmer should obtain one of these light and easy running machines.

Price, $5.00

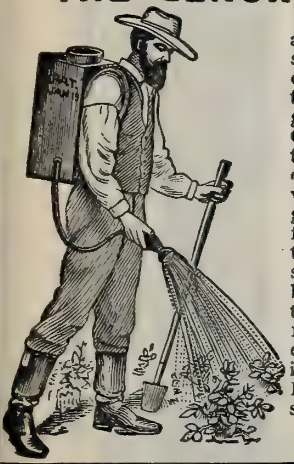
Champion Paris Green or Dry Powder Gun



For distributing dry insecticides and fungicides such as Paris Green, London Purple, Hellebore, Sulphur, Lime, "Fungiroid," Tobacco Dust, etc. Destroys potato bugs and all other insects, and prevents blight. The standard machine for applying insecticides dry. Sure, Rapid, Safe, Strong and Cheap.

Retail Price, $7.00

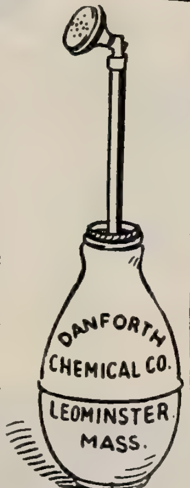
THE LENOX SPRAYER.



A cheap sprinkler for applying poisonous fluids such as Paris Green water, etc., to grape vines, low trees, bushes, potatoes, garden vegetables, etc. Can be carried either on the back or by hand, as desired. It is made of galvanized iron, holds five gallons of fluid, which flows through the rubber tube and is forced out in a spray by pressing the rubber bulb held in the hand; this spray will reach 10 to 12 feet. The Lenox Sprayer is not adapted for throwing fungiroid, such as Bordeaux mixture, the spray is not fine enough.

Price, $3.25

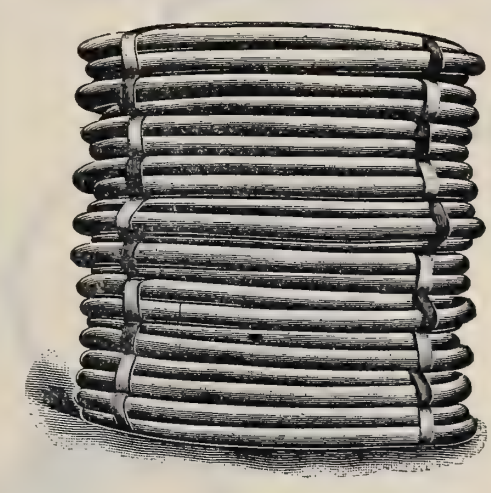
Rubber Atomizers.



This is a useful little devise for house or out-door use. Made of best rubber and distributes Bug Death, Hellebore, Slug Shot or Poisonous liquids. . . . .

Price, 75 Cents.

RUBBER AND COTTON HOSE.

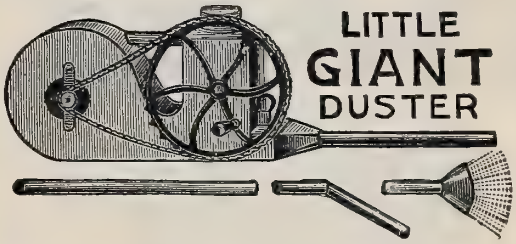


Our Hose is all made expressly for us by the most reliable manufacturer in the state and every piece is warranted, but it is economy to buy the best grade, as it will last several years.

PRICES.

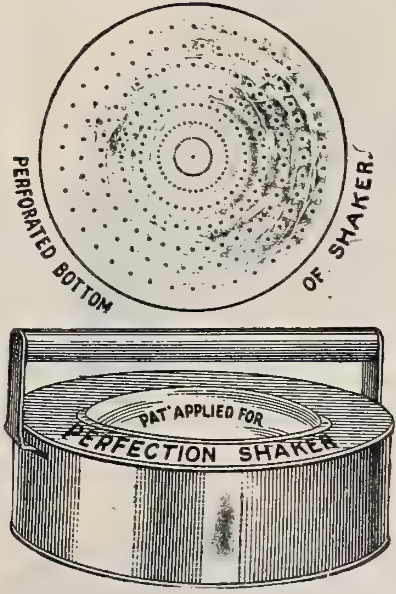
		½ in.	¾ in.
Bull Dog, - - -	7 Ply,	12	14
Tiger, - - - - - -	6 "	9	11
Leader, - - - -	5 "	8	10
Cotton, - - - -		10	12

Improved Little Giant Duster.



Distributes Paris Green, London Purple, Hellebore, Sulphur, Lime, Fungiroid (the dry Bordeaux Mixture), Spanish Pink, Pyrethrum Powder, etc. Weighs only five pounds complete. Full length with tubes, 4 feet 8 inches. **Price, $5.00**

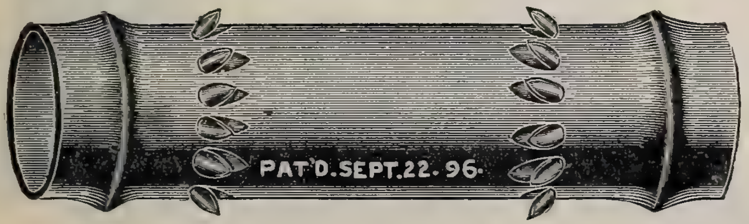
..The.. Perfection Shaker.



Especially adapted for applying Bug Death, Slug Shot, Paris Green, and other powders.

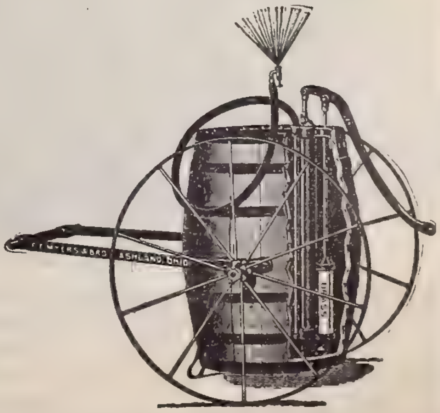
Price, 65c.

THE "COOPER" BRASS HOSE MENDER.


PAT'D. SEPT. 22. 96.

Made of thin brass tubing; will not rust or wear out; scarcely decreases the flow of water. Easily applied by any one; simply cut out your bad piece of hose and force the ends of the good hose over the mender until they meet in the centre. No other fastening is required; the barbs will hold it firm, and no matter what strain is put on the hose it will be as good as new at the point mended, and will not leak. **Price, each, 10 cents; per dozen, 75 cents.**

No. 838 SPRAY PUMP---Mounted On a Steel Barrel Truck.



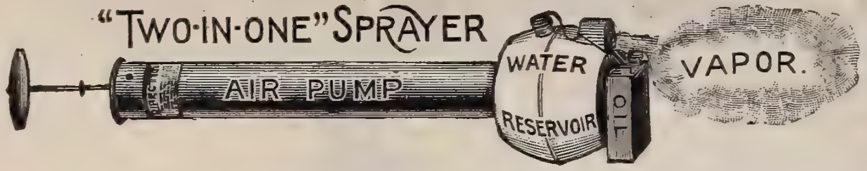
This is our No. 305 Pump, mounted on wheels, and for small orchards where it is impossible to drive with a team this is the handiest rig made. We can sell it complete, or the truck separate.

Price, complete, including Truck, Barrel Extension, Pipe Spray Nozzel and 6 feet of Hose, - - - - **$14.00**

Truck, separate, - - **$4.00**

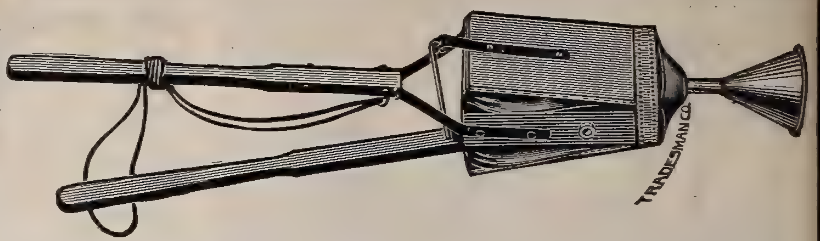
THE DEW-EY

"TWO-IN-ONE" SPRAYER



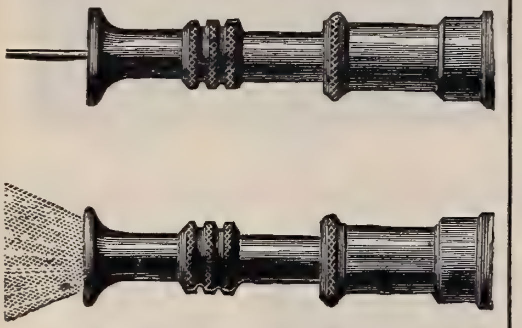
This machine has two reservoirs, one for water and the other for kerosene. Any desired quantity of oil may be vaporized with the water mechanically. This will take the place of kerosene emulsion, and is applied much easier. It is very light and convenient to handle, and will take the place of high-priced pumps. **Net Price, $1.50**

NEWBERRY DOUBLE ACTING POWDER GUN.


TRADESMAN CO.

This powder distributor is similar to the Acme shown on preceding page, but is a great improvement where a large amount of work is to be done. It has a double acting, substantial bellows which works when opening and closing thus throwing a continuous stream. It is provided with a support to hang on the neck of the operator which makes the work very light, and with it a large amount of work may be done in a day. **Price, $1.50**

The "Boston" Spray Nozzle.

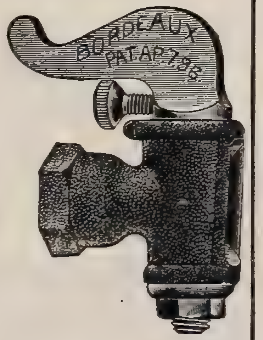


Will throw a coarse or a fine spray, a large or a small solid stream. The spray can be closely contracted or made to cover a large area. These results are obtained by revolving it part way round.

Price, - - 35 Cents.

Bordeaux Spray and Solid Stream Nozzle.

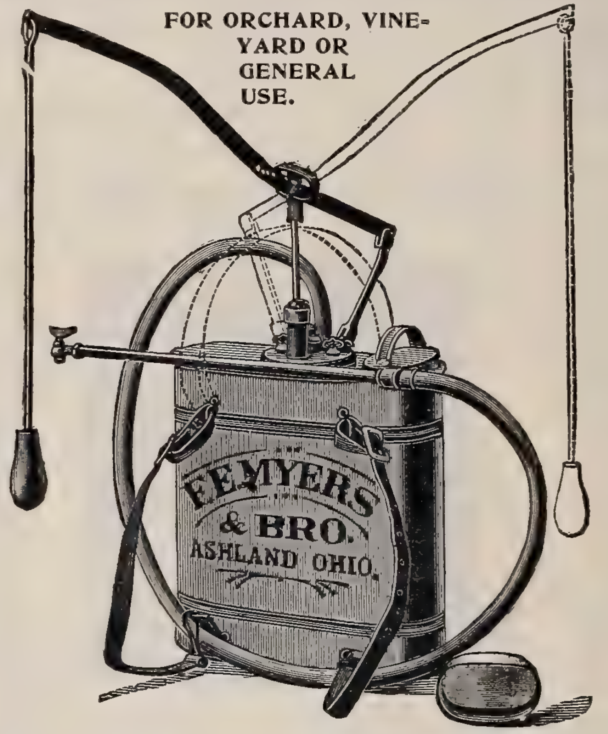
Use this Nozzle for Whitewashing.



Will throw a fine fan shaped spray and will readily free itself, should it become clogged, by turning the cock handle. It will throw a solid stream or may be shut off altogether, as desired. It is especially recommended for use in connection with the Bordeaux mixture, and all Knapsack sprayers.

Price, 85 Cents.

KNAPSACK SPRAY PUMP No. 331

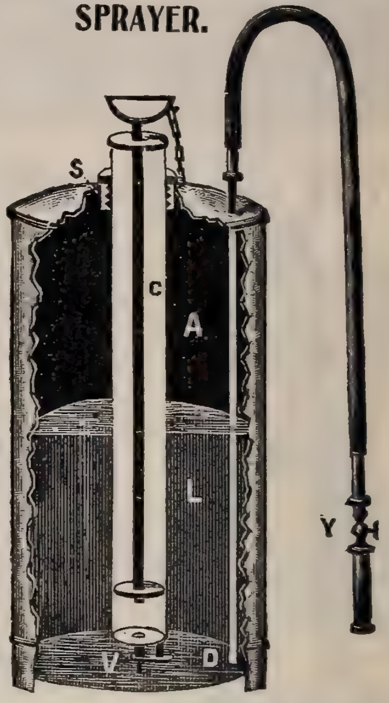

F.E. MYERS & BRO.
ASHLAND OHIO.

FOR ORCHARD, VINEYARD OR GENERAL USE.

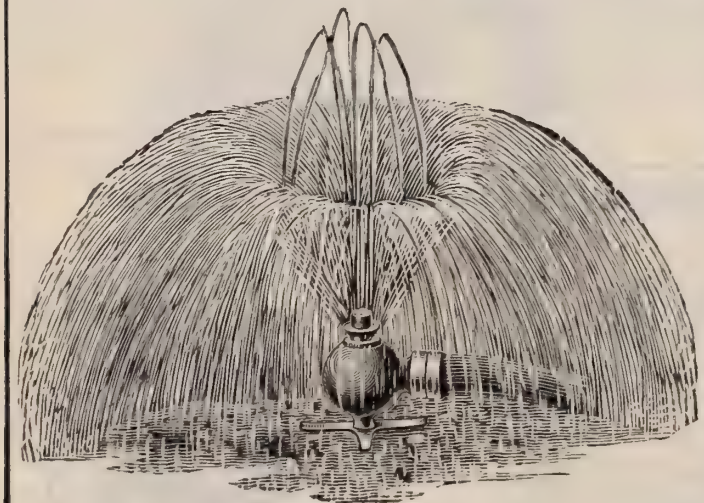
The tank of this pump holds five gallons, is fitted up with lid and strainer, which can be removed. The pump is our regular Copper Tank Spray Pump, with large chamber, ball valves, solid plunger and agitator. It is so arranged that no water can drip on the operator. The pump can be removed easily. The pump is also fitted with handle, so the operator can use it the same as tank with bucket pump, viz.: set the knapsack on the ground and work pump with handle. Can be carried by hooking snap in strap on the opposite side provided for that purpose, making a neat handle, as shown by the dotted lines. The handle lever can be shifted from right to left shoulder at will.

NET PRICE, - - $10.00

THE ROCHESTER SELF-OPERATING SPRAYER.

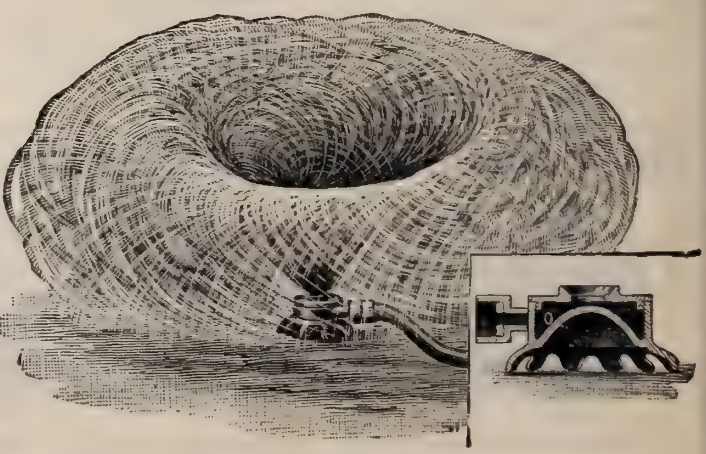


This Sprayer is filled not more than two-thirds full by unscrewing and removing the Brass Air Pump and the machine charged with compressed air. The air enters the sprayer through the valve at bottom of pump, thoroughly agitating and mixing the contents of sprayer. The compressed air, being powerful and elastic, forces the liquid out through the outlet pipe, making either a fine spray or a solid continuous stream as desired. This size machine holds from 3 to 4 gallons, weighs 8 pounds. The body is made of Galvanized Iron or Copper as desired. Air pump is made of Brass. **Price, Galvanized Iron, $5.00; Copper, $8.00**



Lawn... Sprinklers

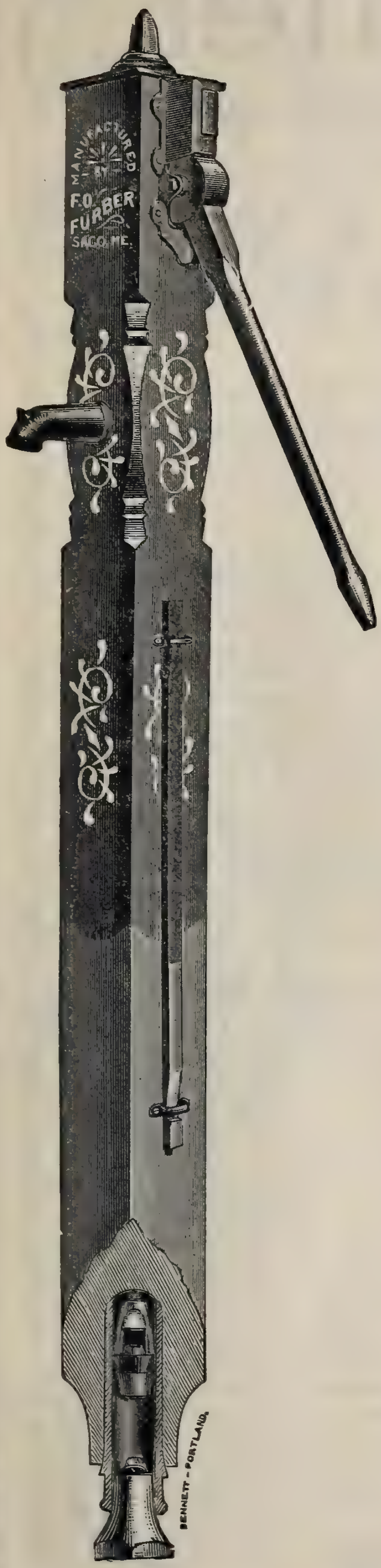
A Good Lawn Sprinkler is a necessary adjunct to all well-kept lawns and grass plots. The water is distributed finely and evenly, and by leaving a sprinkler in one position long enough the grass can be thoroughly saturated, thereby insuring a luxuriant, fresh green sward during the hottest summer drought.



MELAVIN LAWN SPRINKLER.—There is no revolving parts to this sprinkler to get out of order or to get stuffed up in use. A most beautiful water effect is produced; it throws a spray from 15 to 20 feet according to the amount of water pressure. **Price, 40c. By mail, postpaid, 50c.**

DELUGE LAWN SPRINKLER.—This sprinkler is similar to our Melavin but does not have the centre pyramid, but will throw more water and consequently is best adapted where a large amount of water is desired and the effect is equal to the Melavin. **Price, 50c. By mail, postpaid, 60c.**

FURBER WOOD PUMPS.



THIS is the best wood out-door pump that we can buy. It has the patent closed handle bracket, so that stones or any rubbish cannot get into the box; patent let-off to prevent freezing; iron top; lined or unlined.

6 x 6 for house use; 7 x 7 for stock.

6x6 Inch Stock, 3 1-2 inch Bore, for General Use.

	Porcelain Lined.	Unlined.
7 feet long,	$ 7.50	$ 6.00
8 "	8.00	6.50
10 "	9.00	7.50
12 "	10.00	8.50
14 "	11.25	9.75
16 "	12.50	11.00
Use 4 x 4 pipe for above pumps, per foot		$ .18
Couplings and band for the above, each		.50

7x7 Inch Stock, 4 Inch Bore.

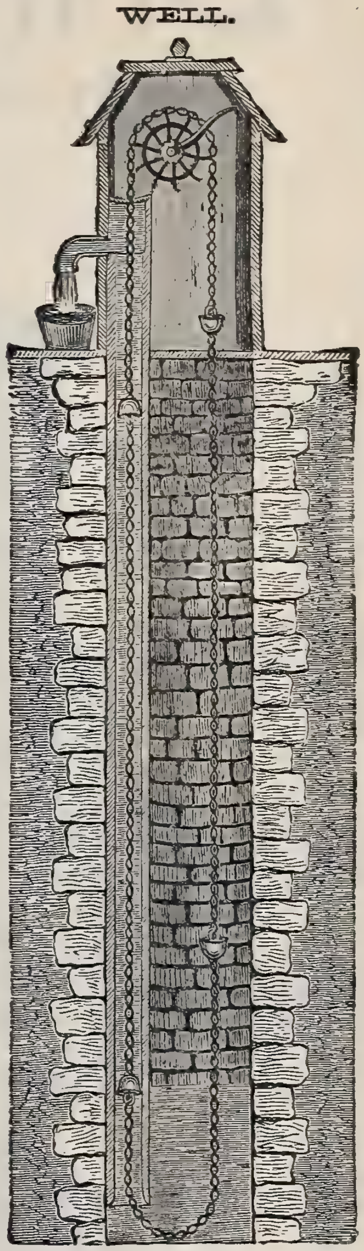
	Porcelain Lined.	Unlined.
7 feet long	$ 9.50	$7.75
8 "	10.00	8.50
Use 4½ x 4½ inch pipe, per ft.		.23
Couplings and bands for the above, each		.60

Retail price, 25 per cent off from list.

PRICE LIST OF EXTRAS OR REPAIRS.

Extra buckets, complete, 3½ inch	$ .80
Extra buckets, complete, 4 inch	1.00
Extra buckets, complete, 4½ inch	1.25
Extra handles for all pumps	.30
Plunger Rod, per foot	.03
Extra Plunger Rod Links	.25
Extra Check Valves, per dozen	1.50
Iron Spout, each, for 6 x 6 House Pumps	.30
Bands, each	.10
Drop Box Valve for drop box lining	1.00
Bucket Leathers, assorted, per dozen	3.50
Furber's Patent Closed Bracket	.80
Bucket Rubbers, each, 3½ inch	.40
Rod Couplings, malleable iron	.40

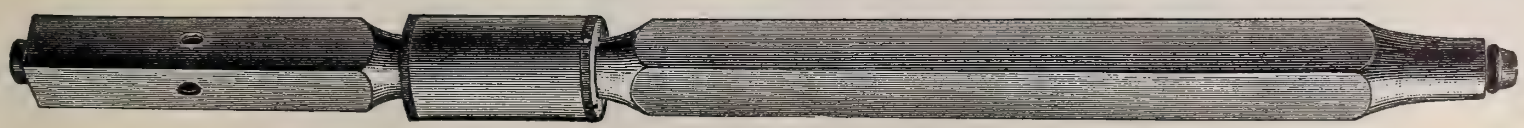
Rubber Bucket Chain Pumps.



This is the old reliable Rubber Bucket Chain Pump, and until the **Bucket Pump** shown on another page came into the market, it was used largely in wells where the water was impure, as the constant motion of the chain and buckets kept the water in motion and prevented sediment. They are one of the best cheap pumps.

PRICES.

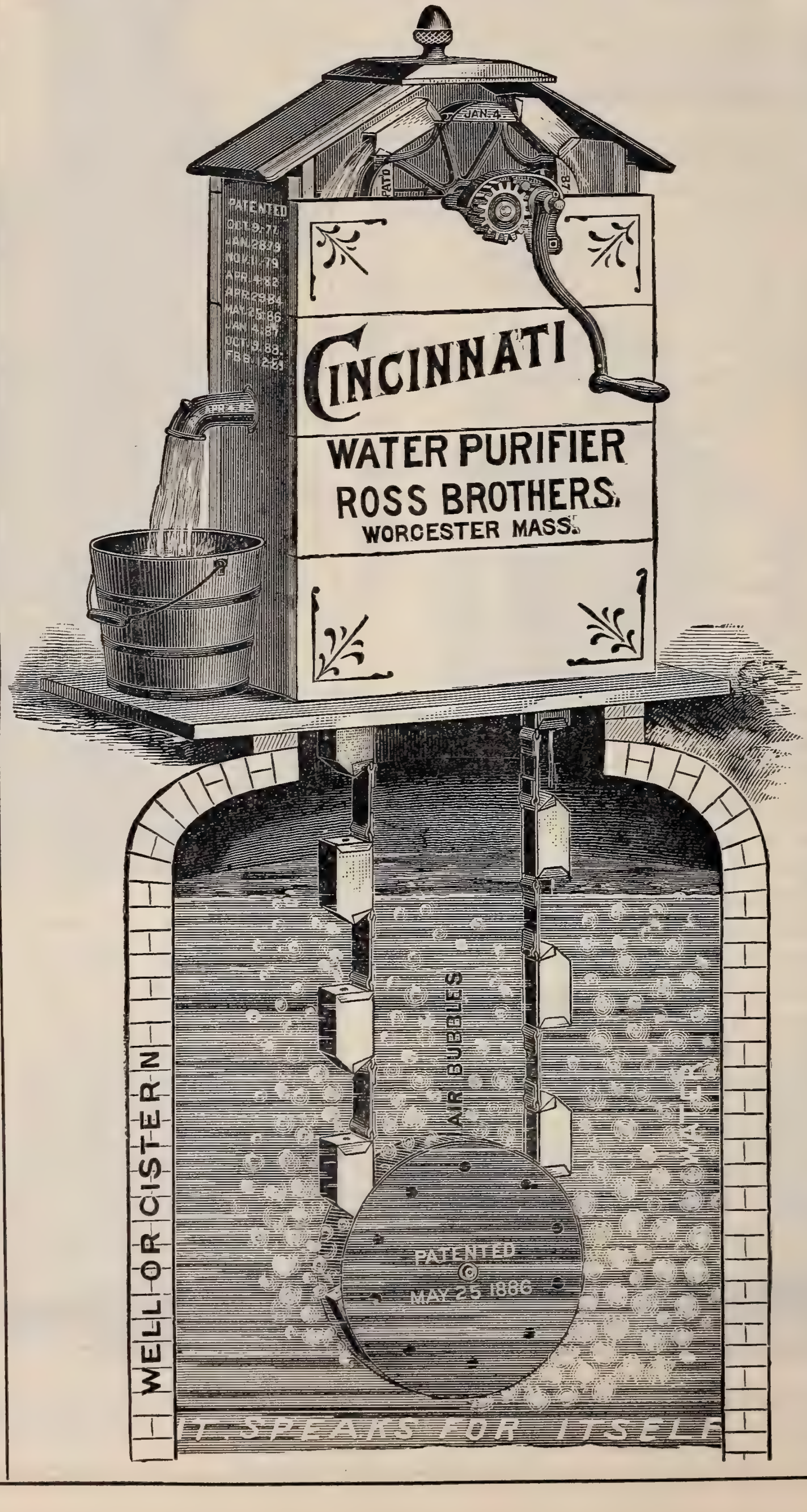
Curbs, each	$2.50
Chain, per lb., (3 ft. to lb.)	.10
Wood Tubing, per foot	.07
Rubber Buckets, each	.15



The above shows two sections of tubing coupled together; also the valve on the end as it should be put on before driving it on to the pump.

Drink Pure Water

By using the Bucket Pump and Water Purifier.


JAN. 4
PATD
PATENTED
OCT. 9. 77.
JAN. 28 79
NOV. 11. 79
APR. 4. 82
APR. 29 84
MAY 25 86
JAN. 4. 87
OCT. 9. 88.
FEB. 12 89
CINCINNATI
WATER PURIFIER
ROSS BROTHERS.
WORCESTER MASS.
WELL OR CISTERN
AIR BUBBLES
WATER
PATENTED
MAY 25 1886
IT SPEAKS FOR ITSELF

It Makes Bad Water Good and Good Water Better.

If you use this Pump you will Enjoy Good Health.

◎ ◎ ◎

Prof. S. F. Baird, the well-known scientist of the Smithsonian Institute, Washington, D. C., who saw it at the World's Exposition, says: "You can't have pure water unless you aerate it, and this device does it perfectly, and is the only pump I ever saw fit to put into a well or cistern where the water is used for drinking or cooking purposes."

We will guarantee to purify any well, no matter how bad the water, in 5 days, or refund the money.

How it Purifies Water.

Every bucket descends full of air and ascends full of water. For every gallon of water drawn, a gallon of air (the vital element) is circulated through the water, from the bottom to the top. This agitates, ventilates and purifies the water, and forces a large surplus of oxygen from the air into the water, which is sufficient to consume all impurities or organic matter in the foulest well or cistern. It is a fact attested by thousands using it, that this purifier is the only one invented that will destroy wiggles, water bugs, water lice and germs of disease, and make foul and stagnant well or cistern water pure and sweet, removing all color, bad taste and smell. After a few days' use the old flatness and insipidity is replaced by a sparkle like that of a mountain spring. A filter purifies, but does not oxygenate; this does both.

Price. **$10.00** for first 10 feet of well; each additional foot of well, 50c. Discount for wells less than 20 feet, 10%; 20 feet and over, 20% discount. Cash with order, 5% extra.

Wells over forty feet deep require extra heavy fixtures, for which there is an extra charge.

☞ Beware of Imitations. No perfect working Pump can be made on this principle without infringing on the manufacturer's Patents. Ask for the "BUCKET PUMP," branded as above. TAKE NO OTHER.

A Live Agent wanted in every town where we have none. To such we will allow a Discount which will enable them to make Big Money. . .

BUG DEATH
TRADE MARK

Pat. March 16 and Nov. 9, 1897.
Pat. in Canada Nov. 2, 1897,
and Jan. 25, 1900.

INSECTICIDES

For the Destruction of All Kinds of Insects That Infest CATTLE, POULTRY or PLANTS.

IN connection with this subject we are indebted to the "Maine Farmer" for an article signed by E. A. Rogers on the use of Paris Green for the destruction of the Potato Bug. There is no doubt that more tons of this one article is used for the destruction of potato bugs and other insects than all other kinds of insecticides combined, but from practical tests made during the past three seasons we are convinced that Mr. Rogers is right in his statement that Arsenic or Paris Green is responsible for the decline or so-called running out of potatoes, and tests made with Paris Green and **Bug Death** show that the vines remain green from four to six weeks longer when Bug Death was used. If space would permit we would print several of these tests, but we give only one.

On Farm of E. A. Rogers, Brunswick, Me., 1900.

A good-sized plot of land was used for these experiments, and was all fertilized and planted alike and had same care throughout the season.

Section No. 1 was sprayed three times with Paris Green. Cost of material for the season 38c. **Result** a yield at the rate of 155 bushels of marketable potatoes per acre.

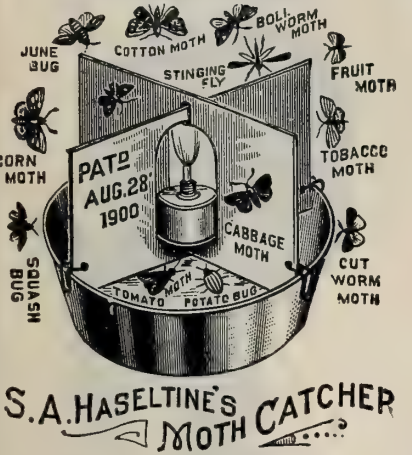
Section No. 2 was sprayed three times with Paris Green and Bordeaux Mixture. Cost of material per acre for the season $3.02. **Result** a yield at the rate of 180 bushels of marketable potatoes per acre.

Section No. 3 was sprayed three times with Bug Death only. Cost of material per acre for season $3.00. **Result** a yield at the rate of 195 bushels of marketable potatoes per acre.

Section No. 4 was sprayed three times with Bug Death and Bordeaux Mixture. Cost of material per acre for the season $5.64. **Result** a yield at the rate of 275 bushels of marketable potatoes per acre.

Each of these sections was sprayed on July 10th, July 23d and August 6th, those sprayed with Paris Green dying first, with Paris Green and Bordeaux Mixture next, followed closely by those sprayed with Bug Death alone, and about three weeks later by those sprayed with Bug Death and Bordeaux Mixture.

Bug Death is a non-poisonous article that effectually takes the place of Paris Green and other dangerous insect powders. It is sure death to potato, squash and cucumber bugs. It can be applied either **wet or dry.** The latter is the usual way and will produce the best results, but it is prepared for both ways. Prices, 1 lb. 15c, 3 lbs. 35c, 5 lbs. 50c, 12 1-2 lbs. $1.00, 100 lbs. $7.00.



("It Works While You Sleep.")

Protects orchard, garden and farm, kills the mother of the apple and pear worm, the codling moth; also the stinging insect that stings the fruit; the tent caterpillar and the borer beetle, which makes the worms that girdles the trees and kills the orchard, also catches the peach and plum beetle that makes the curculio, the June bug, Colorado beetles, potato bug and other noxious insects.

Price, $1.00.

Whale Oil Soap. For destroying insects on plants, etc.; in small boxes, per lb. 15c, 5 lbs. 50c.

Spanish Pink. Non-poisonous to man or beast; kills cabbage willow or web worms, caterpillars, rose and potato bugs; exellent for squash, cucumber and melon vines. Price per lb. 25c.

Paris Green. A poisonous, insoluble powder for preventing the ravages of potato bugs, codling moth, caterpillars, slugs and bugs. Mix 1 pound to 100 pounds of plaster, or 200 gallons of water. May be used clear with the Leggett & Hotchkiss guns. Per lb. 25c, 5 lbs. $1.00.

Dry Bordeaux Powder. For preventing blight on grapes, potatoes and other crops that are subject to rust, mildew and black rot; applied dry with bellows. 1 lb. 15c, 5 lbs. 75c.

Dry Bordeaux Mixture and Paris Green. It kills potato bugs and all plant-eating pests, prevents blight and rust, keeps potato and tomato vines and other foliage in a green and vigorous condition. In one and three pound boxes, per lb. 20c.

Lion Brand Bordeaux Mixture (Liquid.) This mixture is put up in one gallon patent cans. Retail for $1 00. One gallon will make 50 gallons by the addition of 49 gallons of water. Gallon cans $1.00.

THE EUREKA FLY KILLER.

Protects cattle and horses from fly pest and vermin. Sure preventive, perfectly harmless, easily applied, inexpensive.

Eureka Fly Killer is a sure preventive that kills and drives away the worst of all pests, the Texas, Buffalo and horn flies. It was born of a necessity; it meets an existing demand for an article of its kind, and that it meets it well and perfectly satisfactorily is attested by the numerous and grateful testimonials from farmers who have used it.

Price per gallon, 75c.

P. D. Q. Powder For lice and fleas on animals and poultry. No washing necessary; does the work in quick time and is perfectly harmless. Box, 10c; by mail 15c, postpaid; 5 lb. box, $1.00.

P. D. Q. Powder For vegetables. Kills all kinds of insects; is especially recommended for cranberries. 1 lb. 20c, 7 lbs. $1.00.

Tobacco and Whale Oil Soap. Something new to prevent scale, green and black fly, mealy bug and red spider on greenhouse plants, and kills lice on dogs and poultry. Price, 25c.

Tobacco Stems. Indispensable for fumigating greenhouses and conservatories; for destroying aphis, should be dampened before using, and use a small handful on some dry shavings, and light it. Price per 100 lbs., $1.75.

Tobacco Dust. Kills green and black fly, etc., if dusted on when the plants are moist. Also good to mix in the soil to destroy ground insects. Small size 10c, for 100 lbs. $2.00.

Conkey's Roup Cure Is the only remedy that will positively cure roup in all its forms. It is simply put in drinking water and the chicken takes its own medicine. It prevents colds and is unequaled for canker, especially in pigeons. Price. 50 cents.

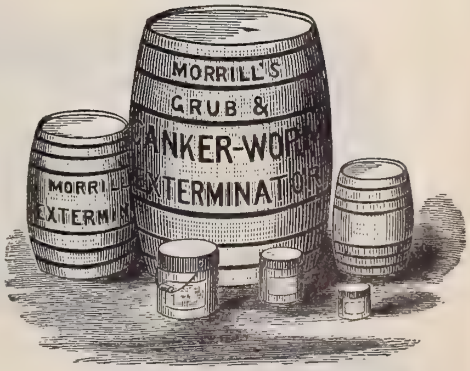
Greeley's Roup Cure. The result of twenty-five years' experience. A sure cure if used in season.

Price, 25 cents.

Lambert's Death to Lice. As its name implies, it is sure death to lice on hens and chickens. It is harmless to human and animal life. Should be used on setting hens; it will not injure the eggs or harm the youngest chick. Large size 50 cents, small size 25 cents.

Morrill's Canker Worm Exterminator.

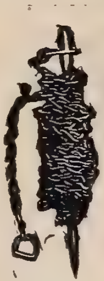
A sure protection for fruit trees and ornamental trees from the ravages of the grub and canker worm. As easily applied as paint or whitewash by first placing a band of tarred paper six inches in width, securely fastened around the tree four feet above the ground, then covering the paper thoroughly with the exterminator, using a common paint brush. For 2 lb. can, 30c, 3 lb. cans, 45c; 5 lb. cans, 60c; 10 lb. cans, $1.10; 20 lb. cans, $2.00.

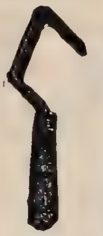


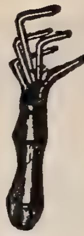
Cold Tar. In quart tin boxes. For tarring corn to prevent crows from pulling it. Per can, 25c.

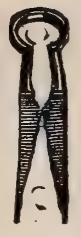
London Purple. Used by some in place of Paris Green. Per lb. 25c.

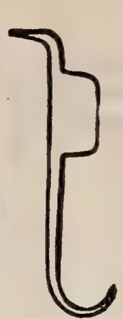
Hellebore. Sure death to the currant worm. Per lb. 25c, 1-2 lb. 15c, 1-4 lb. 10c.

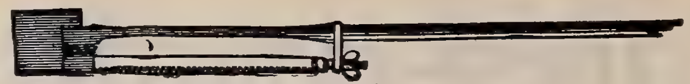

5


6

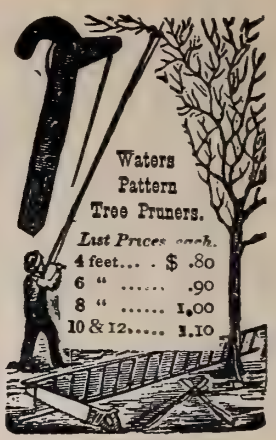

7


8

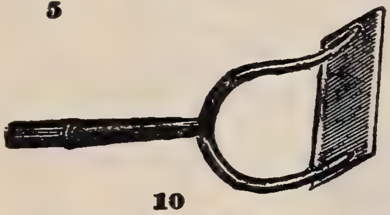

9

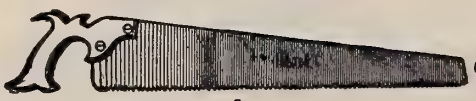

1

2



21

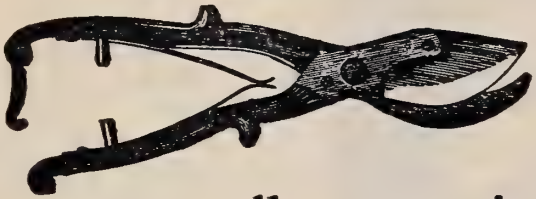

10

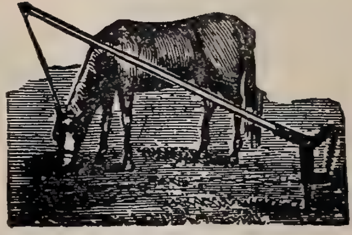

4

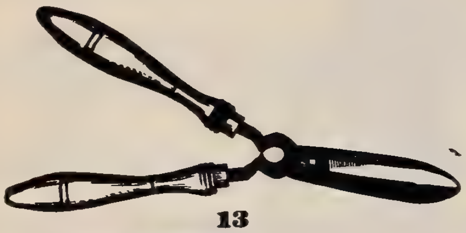
3

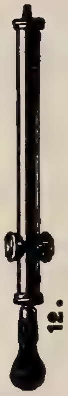
Hedge Shears, Border Knives, Scuffle Hoe, Weeders, Etc.

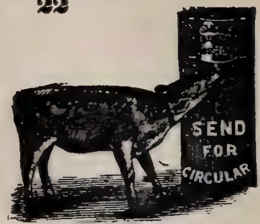
Pruning Saw and Chisel, (Fig 1), . . .	$1.00
One Man Saw,(Fig. 3)3 ft., $1.50; 3½ ft., $1.75; 4 ft., $2 00; 4½ ft., $2.25.	
Narrow Tree Saw, (Fig. 2) with handles, 4½ ft., $1.15; 5 ft., $1.25; 5½ ft.,$1.40;6 ft.,$1.50.	
Pruning Saw, (Fig. 4) 60 cents; Double Edged, Fine and Course Teeth, Straight Blade, 60 cents; Curved Blade, 75 cents.	
Tethering Chain, (Fig. 5) with Stake, 30 ft., .	2.00
Weeder,—Hazelton's, (Fig. 6), ...	.25
Weeder—Secor, (Fig, 7), ...	.10
Sheep Shears, (Fig. 8), used for grass, . .	.50
Grafting Chisel, (Fig. 9), ...	.50
Scuffle Hoe (Fig. 10), 6 in., 45 c.; 7 in., 50c.; 8 in., 55c.; 9 in., 60c.	
French Pruning Shears, (Fig. 11), ...	.50
Garden Syringe, Brass, (Fig. 12) No. A, 12 inch barrel, $2.00; No. 12., 14 in., $3.00; No., 2, 14½ in., $4.00; No. 1, Brass hydro sprayer, Cyclone nozzle, $6.00.	
Hedge Shears, (Fig. 13) No. 100, 9 in., $1.50; No. 101, notch in blade for large limbs, $1.75	
Water Barrel Truck, (Fig. 14) without barrel, including irons, ...	6.00
Bull Rings, (Fig. 15) Copper, 2½ and 3 inch, .	.30
Post Hole Digger, (Fig. 16) Gibbs patent, .	1.50
Scuffle Hoe,—Arlington (Fig. 17) 6,7,8, and 9 in.	1.50
Sunnyside Hoe, (Fig. 18), 35c.; 3 for . .	1.00
Combination Border Knife and Scuffle Hoe, (Fig. 19). Easily changed from knife to hoe,	.75
Lawn Rake—The Queen, (Fig. 20) Wire, tinned 60c. The Canton Wire, wood head, 40c.	
Tree Pruner—Waters' (Fig. 21), 4 ft., 90c.; 6 ft., $1.15; 8 ft., $1.35; 10 ft., $1.50; 12 ft., $1.75.	
Animal Tether—Wright's Pat., (Fig. 22)animals cannot get entangled, ...	2.75
Calf Feeder,Small's,(Fig.23),$2.00; extra nipples,	.25
Wood Measures, Oak, (Fig. 24) Full set, sealed, $1.25, 1 qt., 10c., 2 qt., 15c., 4 qt , 25c., 8 qt., 30c., 1-2 bush., 50c.	
Corn Tie, Holdfast, (Fig. 25), per hundred, .	1.50
Carver's, per hundred, 60c., per thousand, .	5.00
Paris Green Sifter, Farmer's Favorite, (Fig. 26)	1.25
Tomato Support, (Fig.27) Galv. Wire, Folds, . .	.15


11

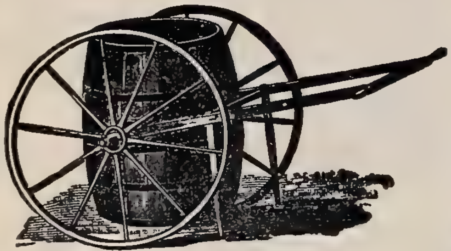

22

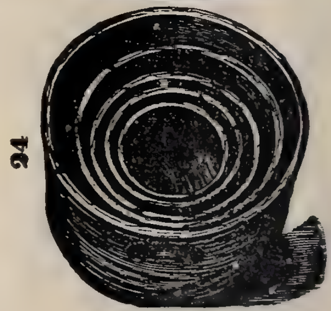

13

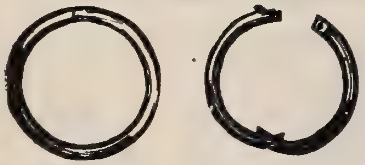

12.

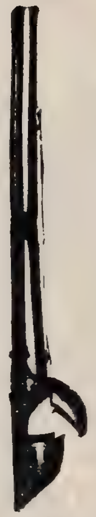


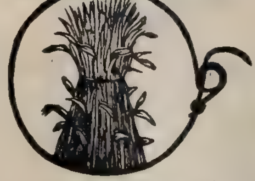
23

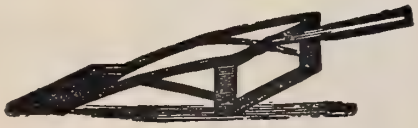

14

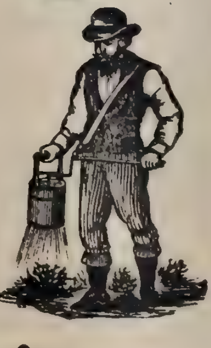

24

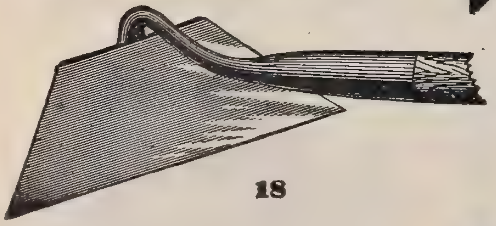

BULL RINGS.
15

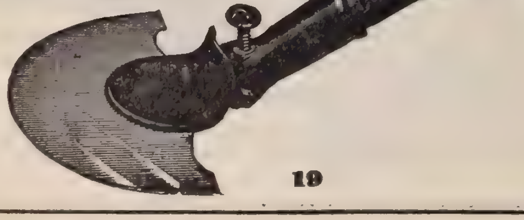

16

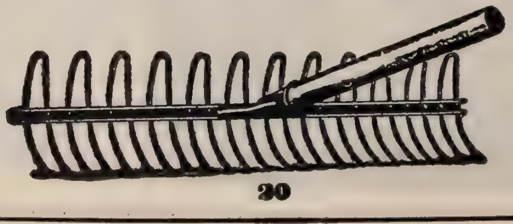

25

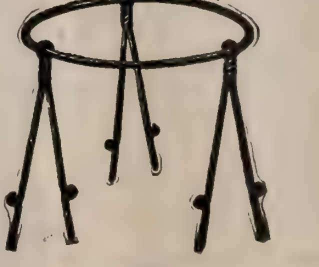

17


26

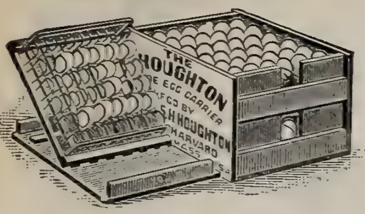

18


19


20


27

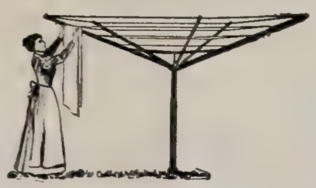
Wire Egg Carrier.



The latest and best invention for handling eggs.

6 doz...	each	$1.00	25 doz...	each	$2.00
9 " ..	"	1.25	30 " ..	"	2.25
15 " ..	"	1.50	36 " ..	"	2.50
20 " ..	"	1.75			

Our Special Out-Door Dryer.

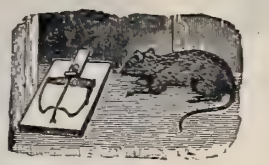


Made of Best Stock, Cotton Line.

110 Foot Line................	$4.00
150 " "	4.50

Above includes box to go into the ground.

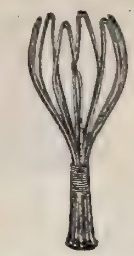
Out-of-Sight Rat and Mouse Trap.



Here is your rat, where is your cat? Never mind, if you have this trap.

For Rats..............	10 cts.
For Mice..............	5 cts.

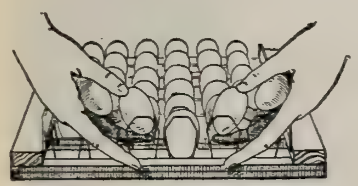
Fruit Pickers.



The Peerless. Very handy for gathering apples, pears or plums.

Price, Peerless...........	25 cts.
Price, Young's...........	20 cts.

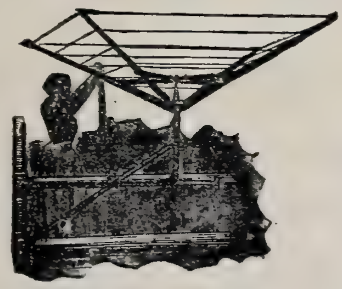
Wire Egg Trays.



Handy for Grocerman, or for retailing to private families.

Holding one doz,. each......	10c.
Holding two " "	20c.

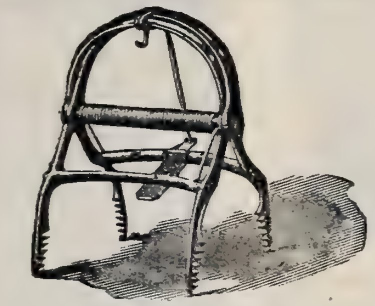
Hill's Balcony Dryer.



The best Dryer made for balconies. Endorsed by all the leading architects.

List Price....................	$12.00
Discount for Cash..........	1.00

Out of Sight Mole Trap.

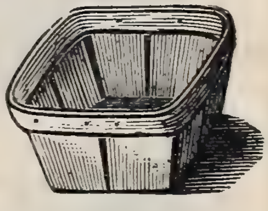


The Out-of-Sight Mole Trap outsells all others, because it is designed right and built right.

Price, $1.00, by express.

Price, $1.25 by mail, postpaid.

Strawberry Baskets.



Fruit put up in a neat package alalways commands a better price than that shipped in cheap baskets.

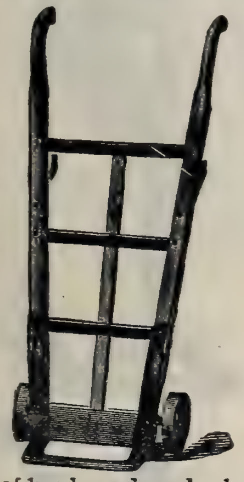
Order early, do not delay until the goods are wanted, and then expect them the next day.

Prices—No. 1 All White Stock wire tacked, 100 50c, 1000 $4.00.

Close Corner, or Huckleberry baskets, 100 60c, 1000 $4.50.

Special price on lots of 5000 or over.

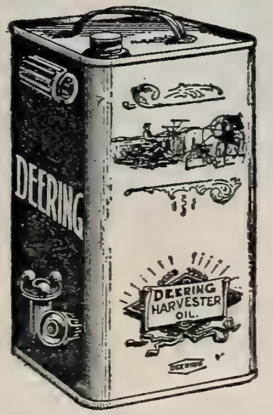
Barn and Store Trucks.



Made of hard wood, and wheels run on steel axle.

Price........... $2.25

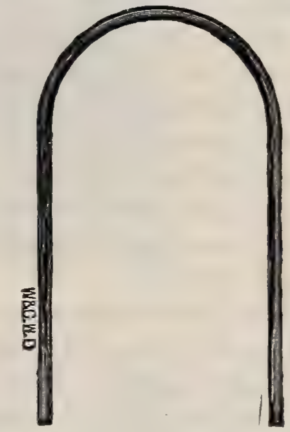
Deering Machine Oil.



Never use cheap oil, the best is none too good. If you buy Deering Oil your machines will run easy.

Price, 2 Qt. Can..........	40c.
Price, 4 Qt. Can..........	75c.

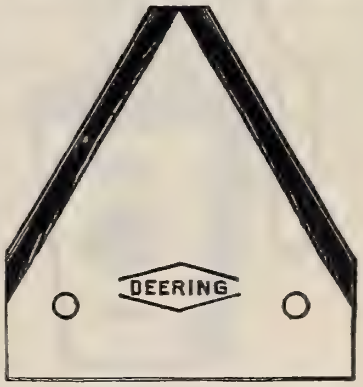
Lawn and Flower Bed Wickets.



Protects flower beds from dogs, cats or children; very ornamental painted green.

Per Dozen.................	$ .75
Per 100........................	5.00

Mowing Machine Sections.

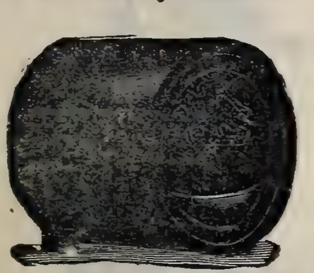


Deering,	Wood,
Buckeye,	McCormick,
Champion,	Osborn.

Each, 6c; per 100, $5.00.

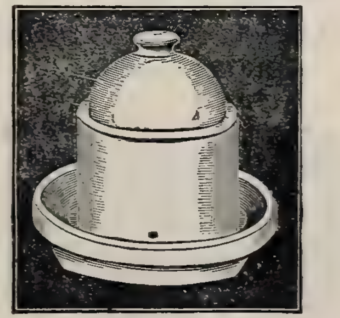
Give size of section, or send old one for pattern.

W. R. Poultry Fountain.

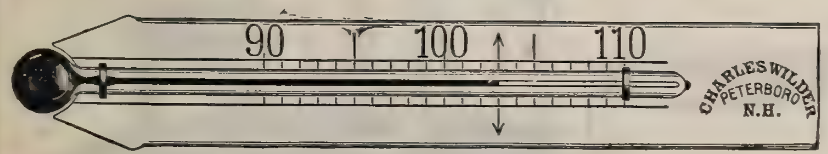


Very handy and convenient. 2 qts. 20c, 4 qts. 30 c, 8 qts. 40c.

E. H. M. Poultry Fountain.



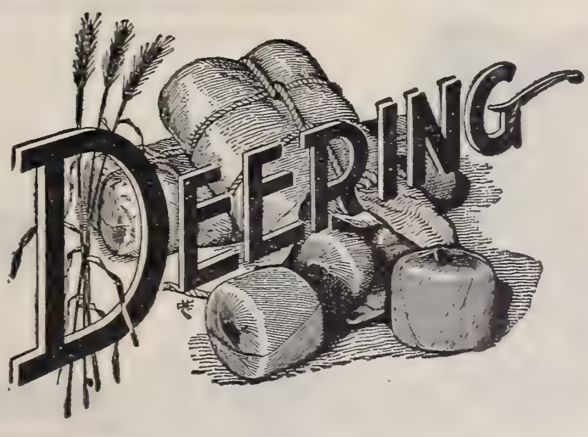
Easiest fountain to clean ever made, 1 qt, 20c, 2 qts. 25c, 4 qts. 35c, 8 qts. 50c.



Incubator Thermometers.

These Thermometers are warranted, and no better name than Wilder ever went on to a thermometer. Price each, 50 cents.

Deering Binder Twine.



Manila or Sisal Binder Twine, for grain reapers or corn harvesters. This is also used for tieing vegetables for the market; is much cheaper than raffia, and not as much work to tie. It is put up in 5 pound balls, a very convenient size. Price per pound, 15 cents.

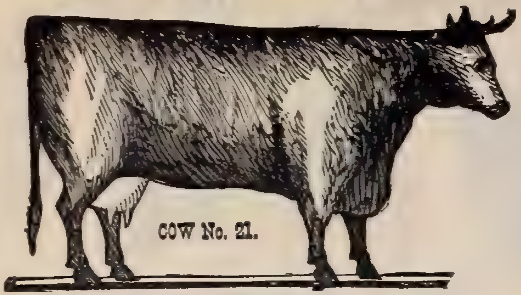


Fig. 2.

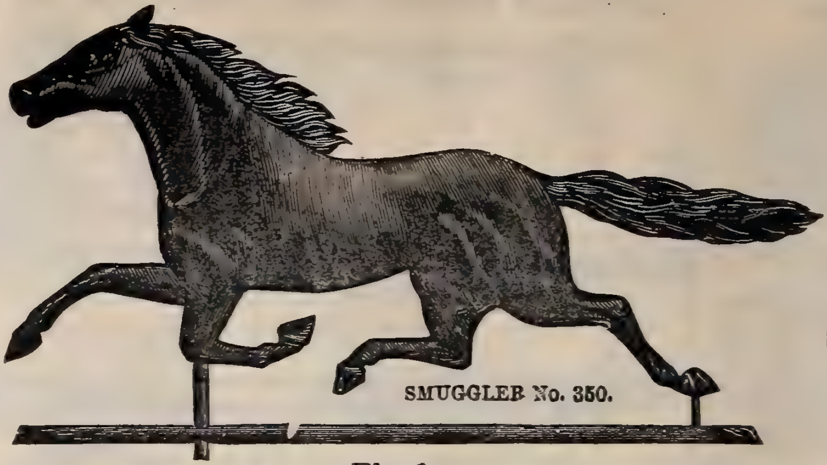

SMUGGLER No. 350.

Fig. 1.

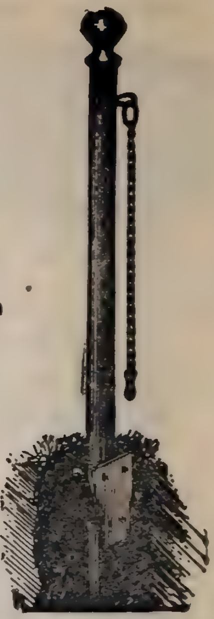


Fig. 11.

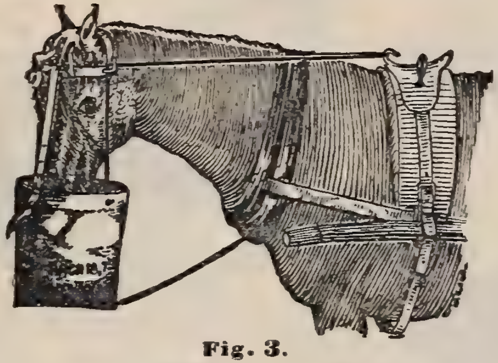


Fig. 3.

Vanes, Stable Fixtures, Feed Bags, Jacks, Hitching Posts, Etc.

Weather Vane, Smuggler, (Fig. 1) 31 inch, complete,	$12.00
Cow, (Fig. 2) . . . . . . 25 inch, $12.00; 33 inch,	24.00
Feed Bag, Whittaker's Patent,(Fig. 3) Wood Bottom, Overdraw Check,	.75
All Canvas,	.60
Feed Bag (Fig. 4) Iroquois Maid, Leather Bottom and Ventilator,	.90
Iroquois Chief, (Folding Bag) Patent Pocket and Hinge Bottom, Leather or Galvanized Steel, Wire Ventilator,	1.00
Iroquois Brave, Patent Doweled, Rabbeted Wood Bottom,	.75
All have Pat. Overdraw Check and Bridle, with Pulley Attachment.	
Stall Manger, (Fig. 5) The Standard Corner Cast Iron Manger,	1.25
Slow Feed, same shape,	1.50
National Feed Box (Fig 6) Slow Feed, great grain saver,	2.00
Wrought Iron Corner Rack, (Fig. 7),	1.50
Cast Iron Corner Rack, (broader),	1.00
Stall Hook, (Fig. 8),	.50
Wrought Iron Wire Stall Guard, (Fig. 9) 72 x 24,	3.60
Wheeler Evener, (Fig. 10) Draft always comes even on both tugs, no side draft or galling. Sold on trial,	3.50
Iron HitchingPost, (Fig. 11), with chain,	1.75
Wood Hitching Post,	1.25
Wheel Jack, Lockport, (Fig. 12) four sizes, suitable for large range of work, light or heavy, No. 1, $4.00; No. 2, $2.25; No. 3, $1.75; No. 4,	1.25
Giant Jack, (Fig. 13) the Standard Wood Jack, No. 0, $2.00; No. 1, $2.25; No. 2, $2.75; No. 3, $3.25.	
Smith's Cattle Stanchions, (Fig. 14) Self Adjusting Fastener, 1.25. In lots of 10, 1.15.	

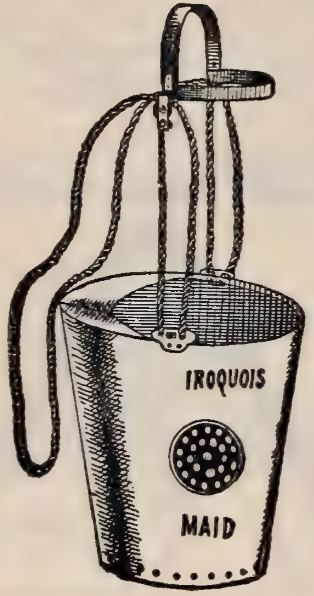


Fig. 4.

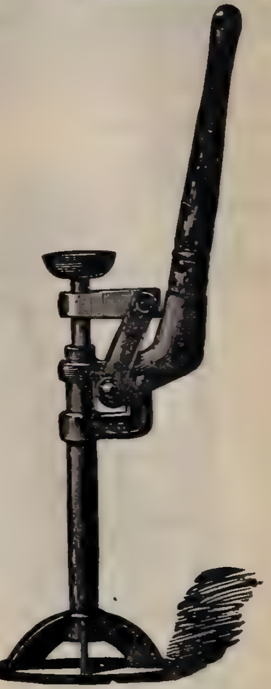


Fig. 12.

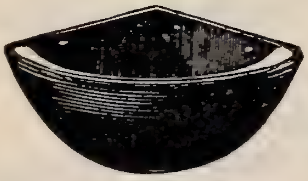


Fig. 5.

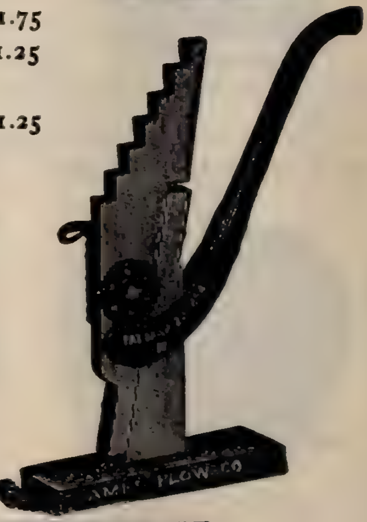


Fig. 13.

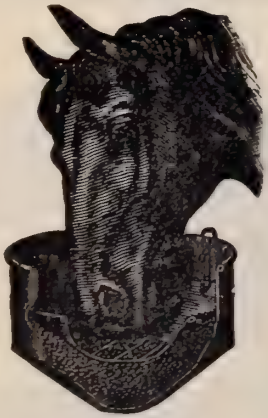


Fig. 6.

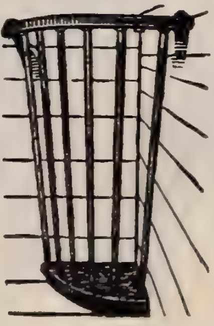


Fig. 7.

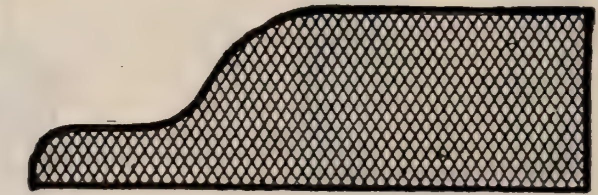


Fig. 9.

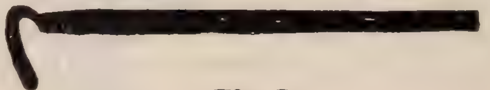


Fig. 8.

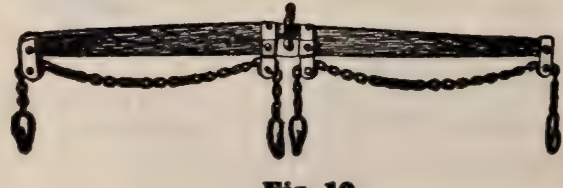


Fig. 10.

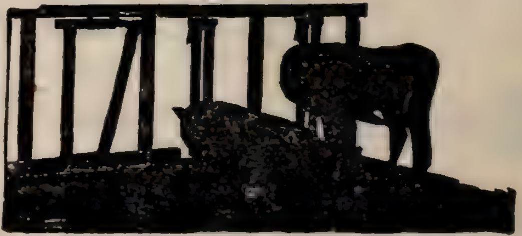
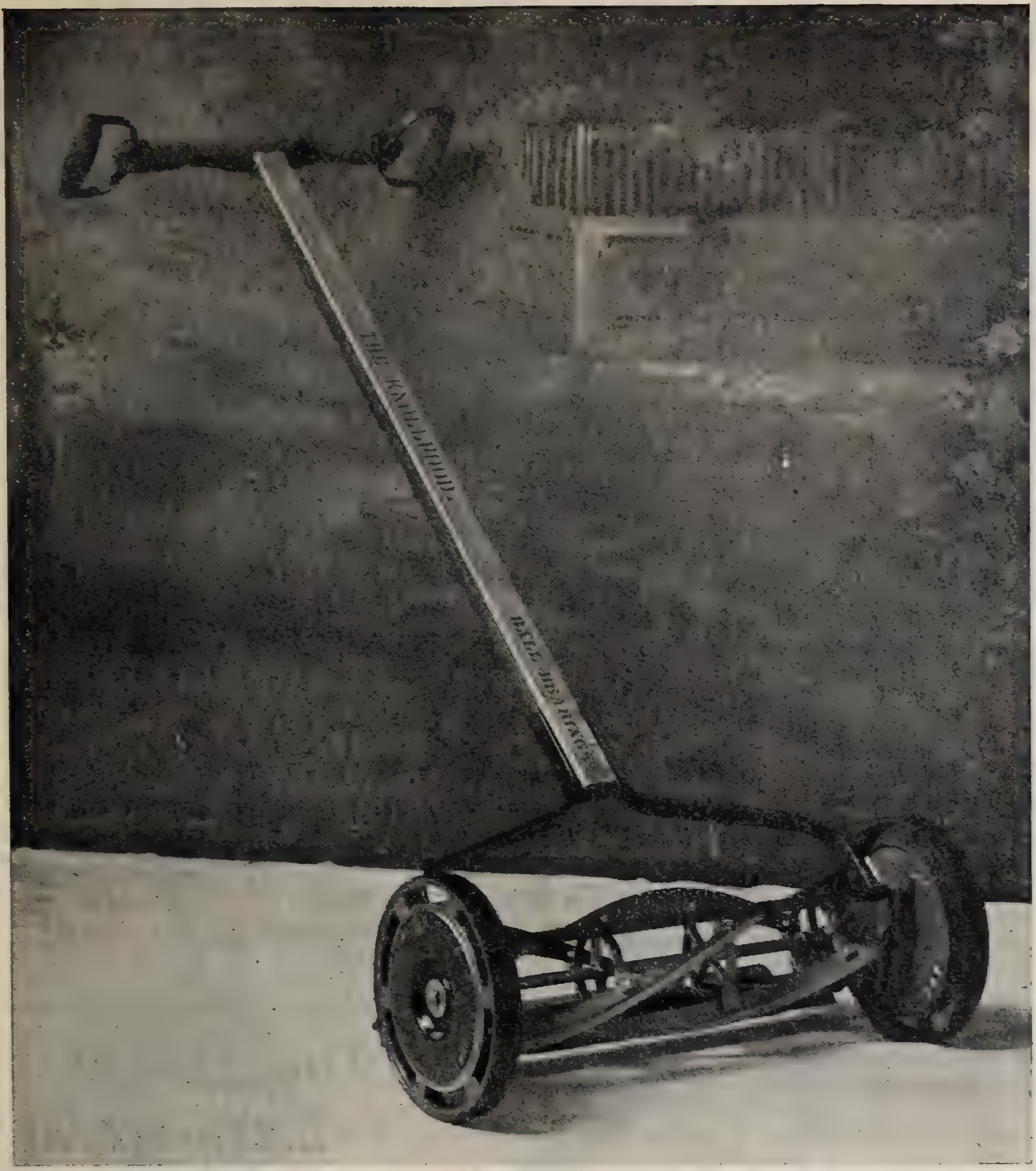


Fig. 14.



The Knollwood
Ball Bearing
High Wheel
Spade Handle
LAWN MOWER.

Improvement is Our Motto

And it is Illustrated in the Knollwood Mower. A 20-inch Machine of this make runs as easy as a 12-inch of the old style, and a Handle made to fit your hands.

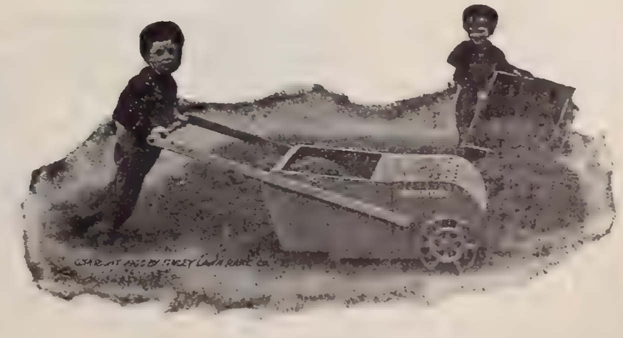
We offer our customers this machine not as an experiment, but as a guaranteed article, one that we have tested ourselves during the past season, and know what we are talking about. This machine runs on ball bearings (and all first-class machines ought to). The balls used are of the very best quality and will last for years. They are enclosed in steel cups, which protect them from wear. The main axle is steel and lathe fitted and is adjusted as nice as any high priced piece of machinery. The end of the axle where it comes in contact with the balls is cone-shaped, and any possible wear can be easily taken up. The machine has a nine-inch wheel, four knives of the best quality of steel and, last but not least, **a handle that is made to fit your hand.** (See the spade handle in cut. After giving you the best mower it is possible for us to get, we have put on to it a handle that we have all been looking for. With this Spade Handle the operator has perfect control over the machine and can handle it perfectly on a side hill or on narrow borders. We shall make this our leading machine, and therefore shall offer it at a popular price, which is within the reach of all. We guarantee to take back every machine that is not satisfactory, after a fair trial. While this machine is the best one on the market for private homes, it is especially adapted for parks, cemeteries and large lawns, and to that class of buyers we will make special prices in quantities.

14-inch........$6.85   16-inch........$7.10.   18-inch........$7.35.   20-inch........$7.60.

THE FINLEY ROTARY LAWN RAKE.

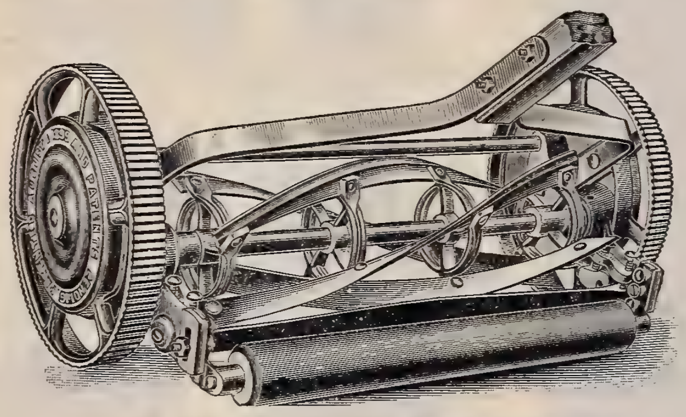
With the Knollwood Mower shown above and the Finley Lawn Sweeper the care of a lawn is made a pleasure instead of a dread.

This is a thoroughly satisfactory machine for raking the lawn after mowing. It gathers up and throws back into the large collecting box all cut grass, leaves, small stones, sticks, etc., nothing escapes. When the box is full it is removed, dumped and replaced in a moment. It works something like a carpet sweeper, excepting that the revolving rakes have flexible steel teeth in place of bristle brushes, these perfectly combing the grass. It can be set to rake low or high, as desired. For cleaning crab grass it is invaluable. It is simple and strong, and can easily be pushed by a man. Sweeps 20 inches wide; it does the work of at least three men, leaving the lawn in beautiful condition, clean, bright and green. **Price, $12.00** (net).


BY FINLEY LAWN RAKE CO.

The Cycle Mower.

High Wheel. = Ball Bearings.

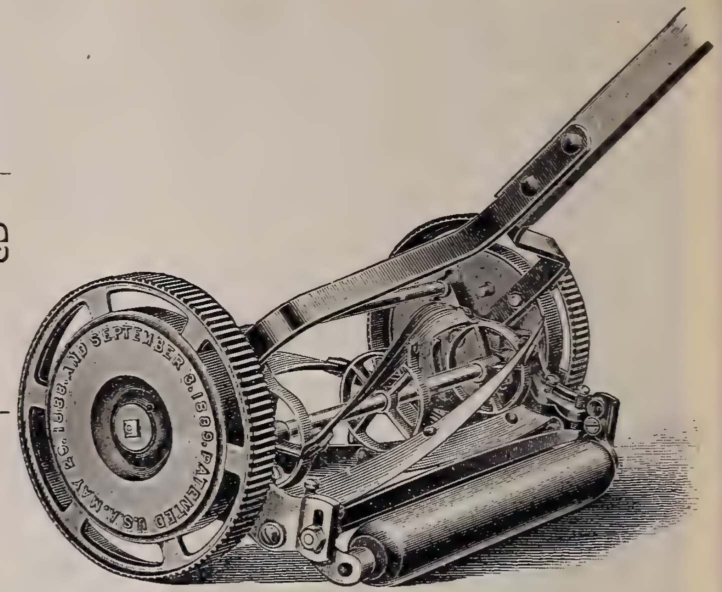


This machine, as its name implies, is built like a cycle. The ball-bearings are the best it is possible to make. It has four knives, a 10-inch open wheel, which makes it light but very strong and durable. This is our *next best machine*, and equals in every way the *Knollwood* excepting the handle.

14 inch....$7.00. 16 inch....$8.00. 18 inch....$9.00.
20 inch........$10.00.

Rossmoyne Lawn Mower.

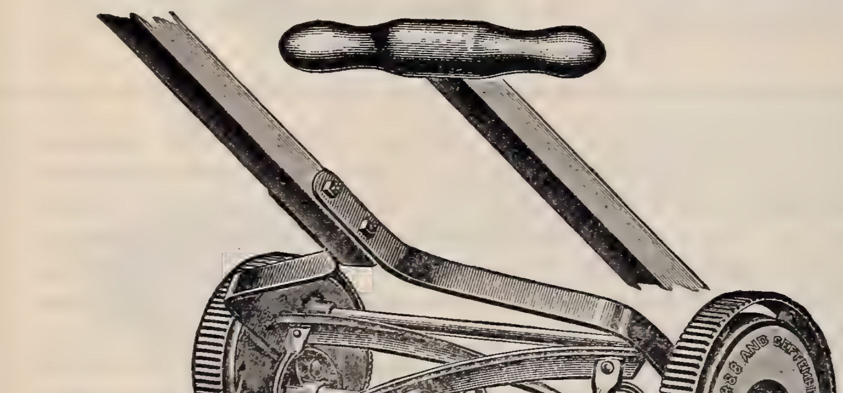
Style C.



This machine has four knives, high wheels, and is of same grade as the Charley Ross, with the extra knife and high wheel. It runs on ball-bearings of the same quality as those used on other machines. It is a first-class, medium-price mower. All the parts are fitted on a lathe, and we warrant every machine we sell. For a medium-price machine, you will make no mistake in buying this one.

12 inch....$5.00. 14 inch....$5.25. 16 inch....$5.50.
18 inch....$5.75. 20 inch....$6.00.

The Charley Ross Lawn Mower.

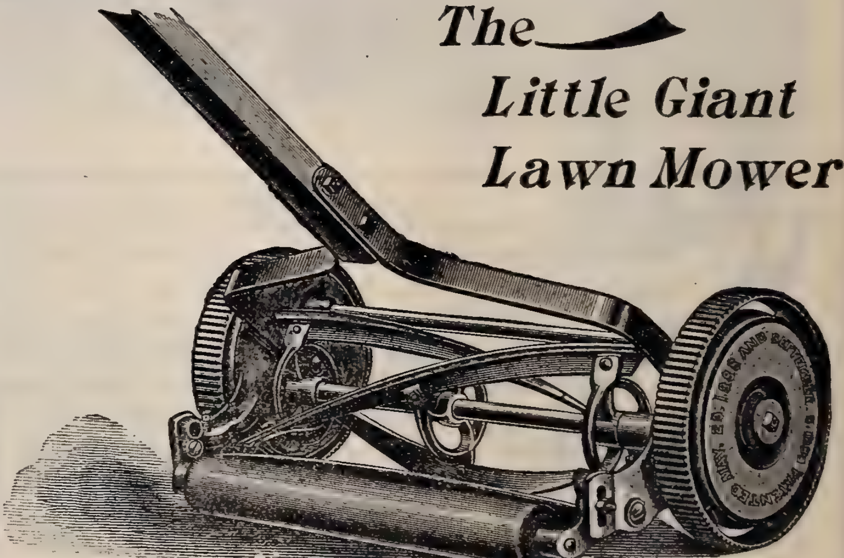


Next to the Rossmoyne we recommend this mower, which is made for us by the most reliable manufacturers in the country. It is a strictly high-grade machine in every particular and the extra rim on the wheel makes it nearly equal to our Rossmoyne high wheel. If you are looking for a three-knife machine at a medium price try this one. 8 in. wheel.

We can furnish this machine with Ball-Bearings at an advance of 75 cents over the following prices.

12 inch....$3.75. 14 inch....$4.00. 16 inch....$4.25
18 inch....$4.50. 20 inch....$4.75.

The Little Giant Lawn Mower



For the benefit of those who want a low-priced mower or those who have but a small amount of grass to cut, we offer this machine, and we think we are safe when we state that it is as good as one-half of the mowers sold as a high-grade machine, and, being a light-running mower, is preferred by many to the higher grade styles. We warrant every machine and have never had to replace one. 8 in. wheel.

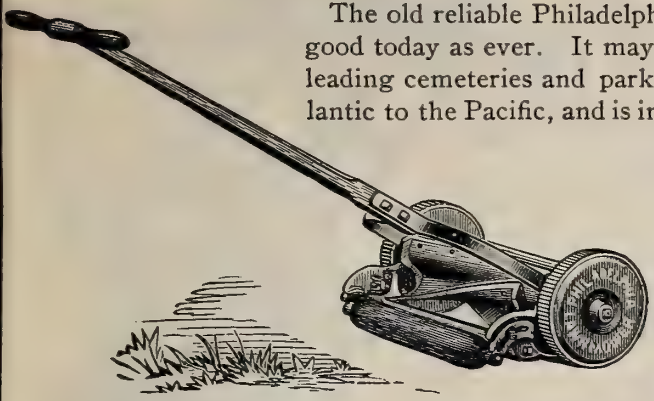
—NET PRICES.—

12 inch..$2.75. 14 inch..$3.00. 16 inch..$3.25. 18 inch..$3.50.

All the machines shown on this page have the Flexible Lower Knife and may be adjusted by a child.

The Philadelphia Lawn Mower.

STYLE M.



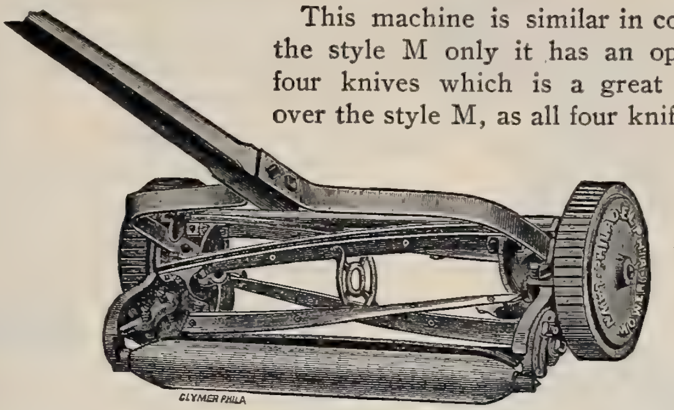
The old reliable Philadelphia Mower is as good today as ever. It may be found in the leading cemeteries and parks from the Atlantic to the Pacific, and is imitated by more manufacturers than any other make. This is guarantee enough that it is the old reliable.

STYLE M. SOLID WIPER. 7-INCH WHEEL.

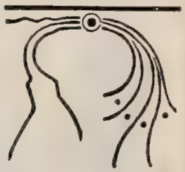
List price, 14 inch, ... $17.00	Net price, ... $6.00
List price, 16 inch, ... 19.00	Net price, ... 6.50
List price, 18 inch, ... 21.00	Net price, ... 7.00

The Philadelphia Lawn Mower.

STYLE S.



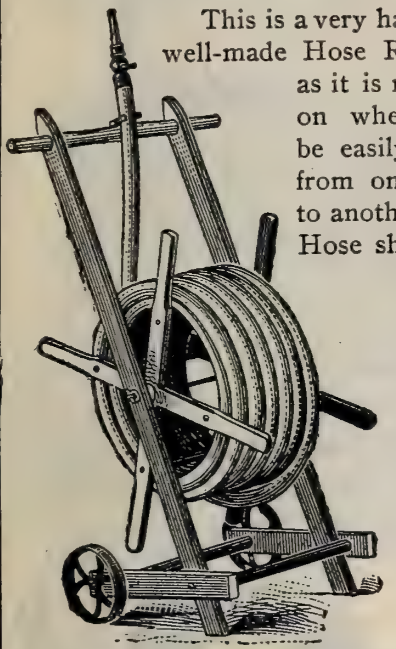
This machine is similar in construction to the style M only it has an open wiper and four knives which is a great improvement over the style M, as all four knife mowers do better work than those with three.



STYLE S. 4-KNIFE. OPEN WIPER. 7 IN. WHEEL.

Width of cut, 14 in.	Weight, 33 lbs.	List, $17.00	Net, $6.50
Width of cut, 16 in.	Weight, 34 lbs.	List, 19.00	Net, 7.00
Width of cut, 18 in.	Weight, 36 lbs.	List, 21.00	Net, 7.50
Width of cut, 20 in.	Weight, 40 lbs.	List, 23.00	Net, 8.00

The Eclipse Hose Reel.



This is a very handy and well-made Hose Reel and as it is mounted on wheels can be easily moved from one place to another. Hose should always be wound on a reel as it prevents it from rotting.

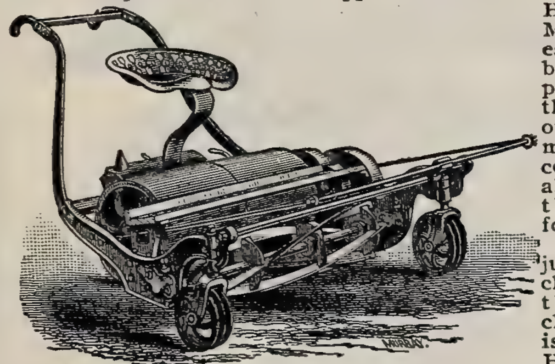
Price, 75 Cts.

THE AUBURN HOSE REEL.

This is similar to above only made of better material. Has six instead of four arms and is painted red. **Price, $1.75**

New Excelsior Horse Lawn Mower.

It is quite essential to those having extensive lawns who desire to keep them in fine order that the grass should be evenly cut in order to porduce a beautiful appearance. The New Excelsior Horse Lawn Mower is especially built for this purpose, and the numerous testimonials received from all parts of this and foreign countries justify us in claiming for this machine that it is the best Horse Lawn Mower on the market. We furnish the Mower with side-draught attachment that permits the horse to walk only on the cut grass. We use the sectional caster wheels which do not roll down the standing grass nor leave unsightly marks upon the lawn. For many years the Excelsior Lawn Mower has been in use on the public parks in large cities, on college lawns throughout the country, at military posts and on extensive private parks in this and foreign countries, and have uniformly given entire satisfaction. We fully guarantee them in every particular.

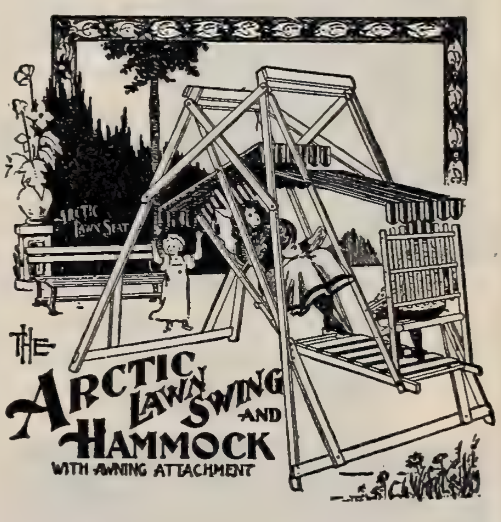


The Horse Lawn Mower is made in Four Styles, viz.:

25-inch cut, without Seat or Shafts, . .	$ 65.00
30-inch cut, with Seat and Shafts, . . .	110.00
35-inch cut, with Seat and Shafts, . .	135.00
40-inch cut, with Seat and Shafts, . . .	170.00

☞ Please note that no seat can be used on the 25-inch cut Mower, but shafts and side-draught attachment can be furnished when specially ordered. Full directions for setting up accompany each mower. WRITE FOR DISCOUNT.

Arctic Lawn Swing.



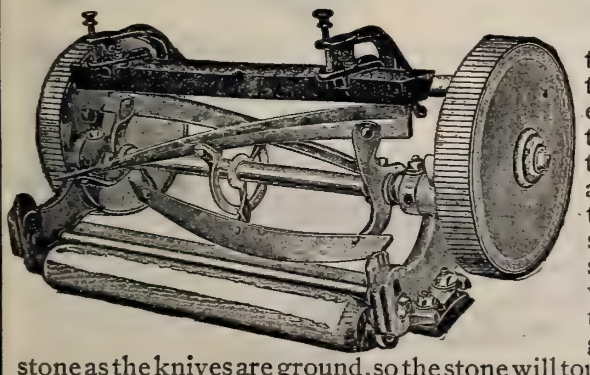
The Arctic Lawn Swing and Hammock with or without Awning.

As a swing this affords a most comfortable lounging place you can think of. The backs of the chairs are adjustable and can be set up straight or inclined at as great an angle as you wish.

Price, with Awning,	**$6.50**
Price, without Awning,	**5.50**

Leshure's Adjustable Lawn Mower Sharpener.

Patented. A Permanent Fixture. Always Ready. Lawn Mowers Always Sharp.



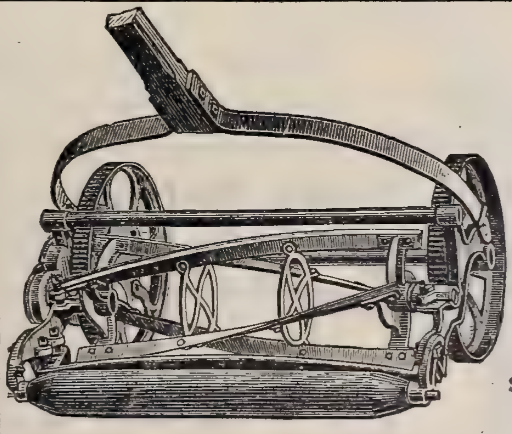
Put the stone into the holders pressing tightly. Set the holders on the front bar so the knives will strike the stone in the center as shown in cut. If the knives are not straight, lower the stone so the knives will touch lightly on the high places and gradually lower the stone as the knives are ground, so the stone will touch the knives evenly.

To sharpen lower knife, use the stone as a file.
The sharpener should be kept on the mower.

Price, $1.25

THE PHILADELPHIA LAWN MOWER.

STYLE A.

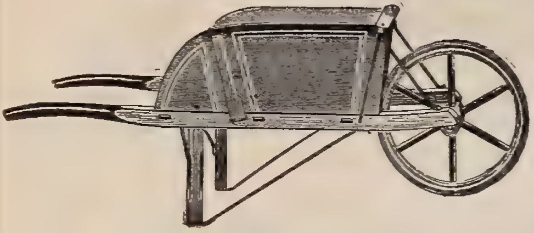


This is the best Philadelphia Mower made. It has a 10-inch driving wheel; 6½-inch cylinder with four knives; constructed of steel throughout. It has a train of three gears instead of a single pinion.

Style A. 4-Knife. Open Wiper. 10-inch Drive Wheel.

Width of cut, 15 in.	Weight, 39 lbs.	List, $25.00	Net, $10.00
Width of cut, 17 in.	Weight, 42 lbs.	List, 28.00	Net, 11.00
Width of cut, 19 in.	Weight, 44 lbs.	List, 32.00	Net, 12.00
Width of cut, 21 in.	Weight, 46 lbs.	List, 34.00	Net, 13.00

Beekman Garden Barrow.

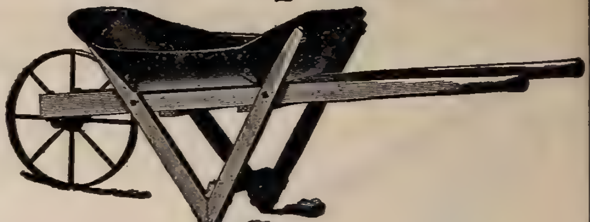


This barrow is made of hardwood but not all oak; it is well made, all parts being bolted or screwed. Our best seller.

PRICES.

No. 2.	Boys' Size,	$2.75
No. 4.	Medium Size, for garden,	3.00
No. 6.	Large Size, for farmers,	3.25

Klondyke Steel Tray Barrow.

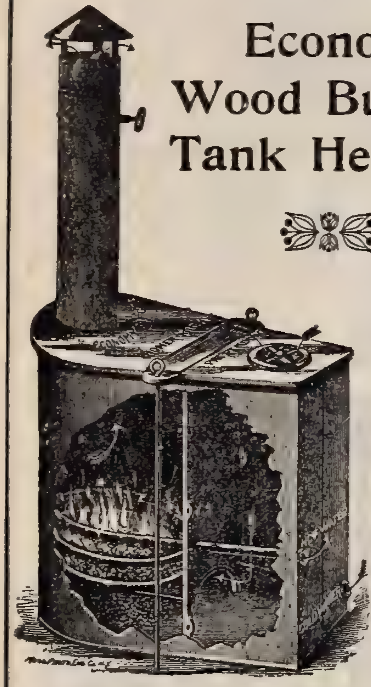


This barrow is made similar to our Contractors' Favorite with the exception of the tray which is made of one piece of sheet steel about the size of a wood tray. Trays are painted one heavy coat of paint.

Price, each, $2.75

Economy Wood Burning Tank Heater.

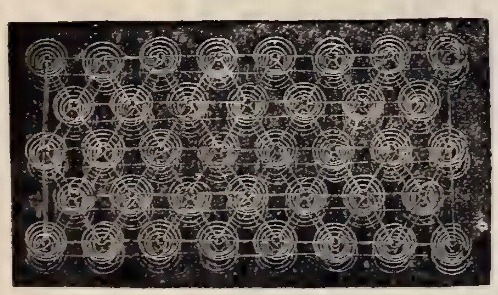
◆



This heater burns wood or cobs and is designed for out door use. Will heat a large tank of water in a very short time.

Price, $8.50

THE UNION SPRING STEEL WIRE CUSHION.



The best in the market for wagons, carriages, barges, etc. Made any size in length or width. Can be used either side up, and are hooked together so they cannot get out of order. They are placed on the seat and are used with only a thin cushion or a blanket on them, and in wet weather can be used alone.

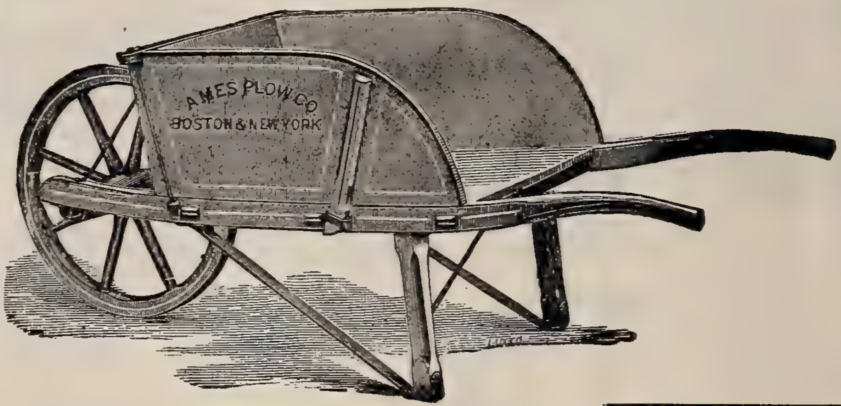
PRICES.

14-Inch, $1.25; 18-Inch, $1.50; 42-Inch, $3.00

Other Sizes Made to Order.

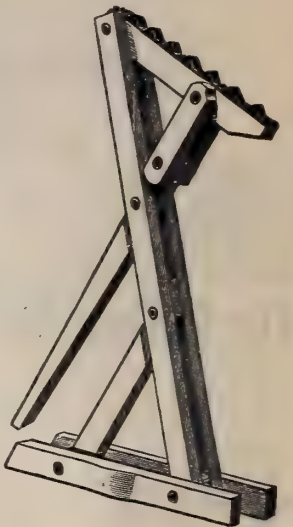
Lawn or Garden Wheelbarrow.

CUSTOM MADE.



This barrow we have made for us and is especially designed for our retail trade. It is made entirely of oak, is handsomely painted and varnished, and is put together with bolts and screws. Has a high wheel with eight spokes. It is an ornament to any garden. One size only.

No. 4. Price, $4.00



Eclipse Wagon Jack.

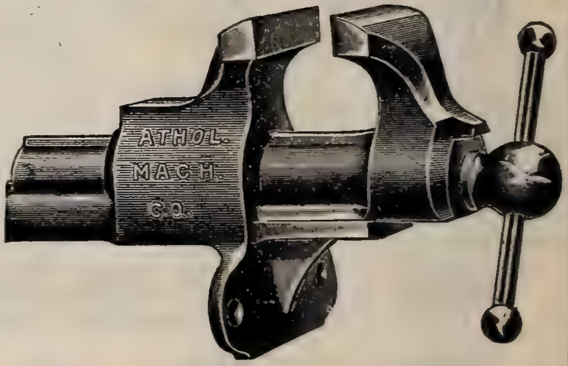
The BEST cheap Wagon Jack made. Will lift any light wagon or carriage. Iron plate on top to prevent wear.

PRICE, ONLY 50 CENTS.

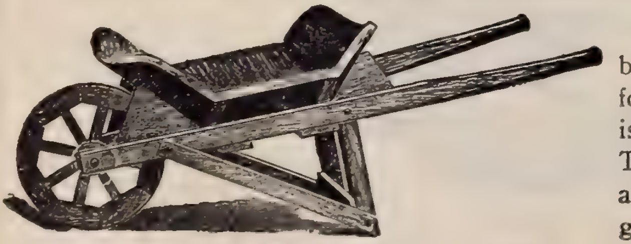
FARMERS' OVAL SLIDE VISES.

Made of best quality of stock with hardened steel jaws and proportioned for strength and durability.

	Width of Jaws.	Jaws Open.	List Price.	Net Price.
No. 63.	2 in.	3 in.	$2.50	$1.65
No. 64.	2½ in.	3¼ in.	2.70	1.80
No. 65.	3 in.	4½ in.	3.60	2.35
No. 66.	3½ in.	5¾ in.	4.65	3.00
No. 67.	4 in.	6¼ in.	6.70	4.40

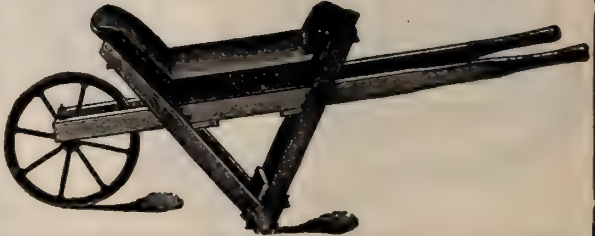


Common Bolted Dump Barrow.



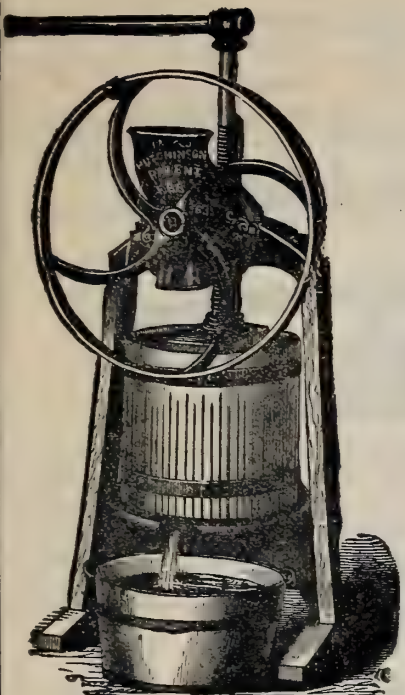
This is a much better made barrow for the price than is usually sold. The legs and braces are bolted, has a good wood wheel with iron bound hub, and with the exception of our Contractors' Favorite is the best dump made. **Price, each, $1.60; per dozen, $18.00**

Dump, or Contractors' Barrow.



The Contractors' Favorite Dump Barrow is without doubt the strongest and most durable dump barrow on the market. Please notice the Iron Shoe, which is unlike any other barrow. The stock used is the very best, and it is bolted throughout. We can furnish either wood or steel wheel.

Price, each, Wood Wheel, $1.75, doz. $20.00; Steel Wheel, $2.00, doz. $23.00



The Hutchinson Family Cider and Wine Mill.

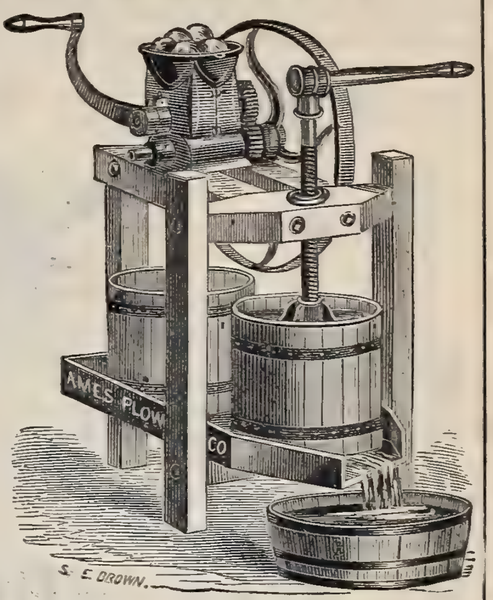
For those who only make limited quantities of cider or wine, this old favorite machine is unexcelled. It will grind from eight to ten bushels of apples, and from ten to twelve bushels of grapes, currants, etc., per hour. The curb (or press) will contain the pomace of one bushel or more of apples. One man can make with it from two to three barrels of cider, or from one hundred to one hundred and fifty gallons of wine per day, while it is always ready to make a pitcher or bucket of cider in a few minutes.

No. 0.	List, $10.00.	Net, $7.50
No. 1.	List, 12.00.	Net, 8.50

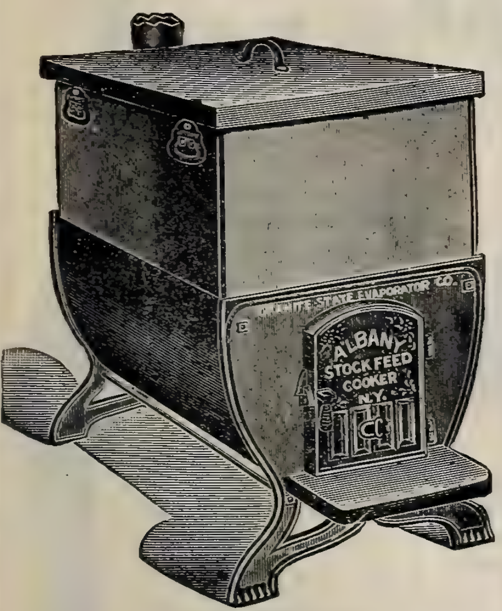
NATIONAL CIDER MILL. FAMILY . . . SIZE.

This mill is especially adapted for family use, being light, strong and convenient. It is exactly the same in principle as the farmers' mill shown below, only of smaller size and sold at a less price. This mill will pay for itself in one season by gathering the windfalls and making them into cider for vinegar and for the market; this is just the size for that purpose.

	List Price.	Net Price.
Two Curbs,	$20.00	$17.00



THE ALBANY COOKER.


GRANITE STATE EVAPORATOR CO.
ALBANY STOCK FEED COOKER N.Y.

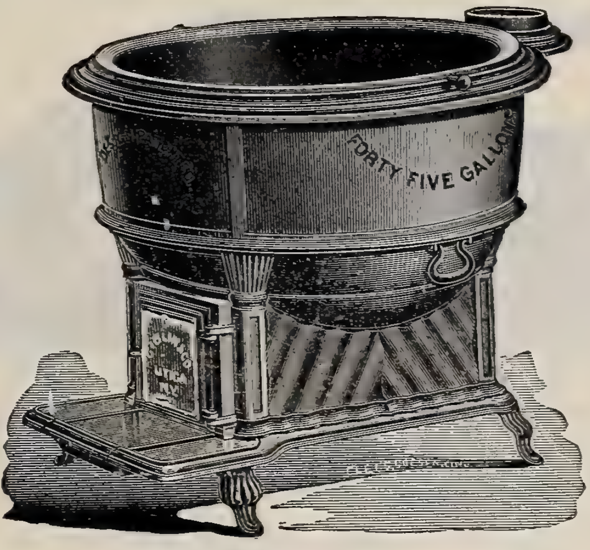
Similar to the Granite State, only lighter in weight and cheaper in price, but well worth the price. Two sizes only.

25 Gallons.................... $9.00
50 " 11.00

Discount for Cash, 50 cents.

Furnaces and Caldrons

Made in seven sizes for hard or soft coal or wood. The flues are so constructed that the heat is directed against the whole surface of the Caldron at the same time and none wasted.



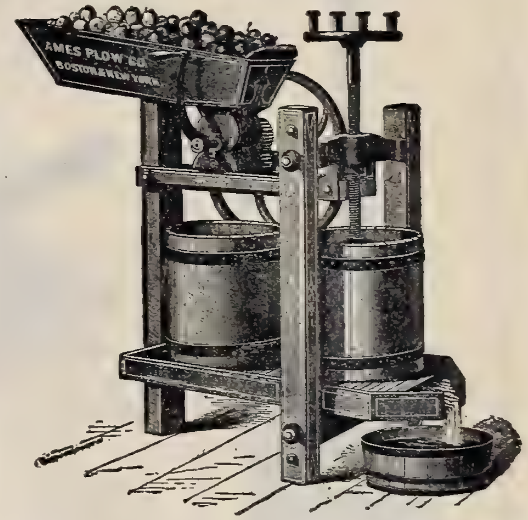
LIST PRICE.

15 Gal.	22 Gal.	30 Gal.	45 Gal.	60 Gal.	90 Gal.	120 Gal.
$24.50	$30.50	$37.50	$13.50	$50.00	$88.00	$115.00
COAL FIXTURES.						
$3.75	$4.50	$5.40	$6.50	$7.50	$15.00	$22.00

Discount for Cash, 40 per cent.

NATIONAL CIDER MILL.

FARMERS' SIZE.

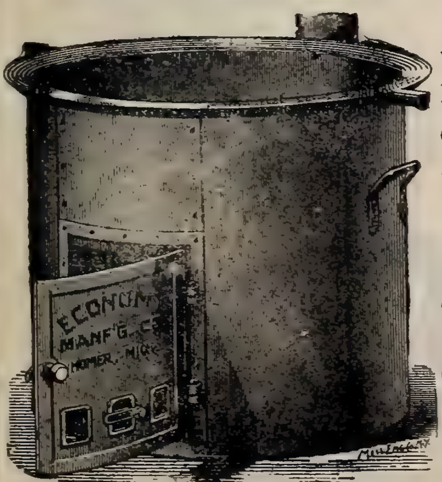

AMES PLOW CO. BOSTON & NEW YORK

This mill is constructed upon new principles, avoiding the defects in all other mills. The grinding arrangement works in such a manner that the cells of the fruit are all broken and fine pomace produced; a larger per centage of juice is obtained making more cider from a given quantity of apples than can be made by other mills.

Capacity is six to eight barrels per day.

List Price, $28.00. Net Price, $23.00.

ECONOMY BOILERS.


ECONOMY MANF'G CO HOMER, MICH.

No Farmer can afford to be without a farm boiler or large kettle of some kind. The Economy, shown in cut, is the cheapest of any on the market.

For out-door use only.

PRICES.

40 gallons, list $11.00; discount for cash, $1.00.

60 gallons, list $13.00; discount for cash, $1.00.

70 gallons, list $14.00; discount for cash, $1.00.

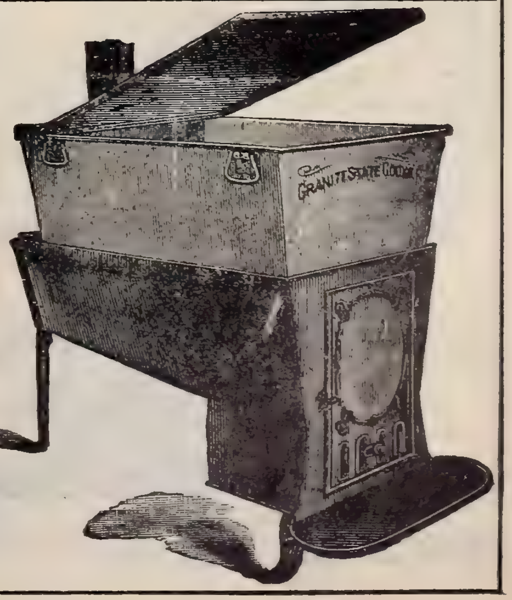
"Granite State" Water Heater.

Takes the place of the cast iron caldron. Boiler of galvanized steel; furnace of gray iron castings and sheet steel; sides of double thickness of steel with hot air space between. Guaranteed just as represented in the illustration or money will be refunded.

PRICES.

25 gal.	$15.00	50 gal.	$21.00
30 gal.	16.50	65 gal.	22.50
40 gal.	19.50	75 gal.	24.00
		100 gal.	$27.00.

Discount for cash, 10 per ct.

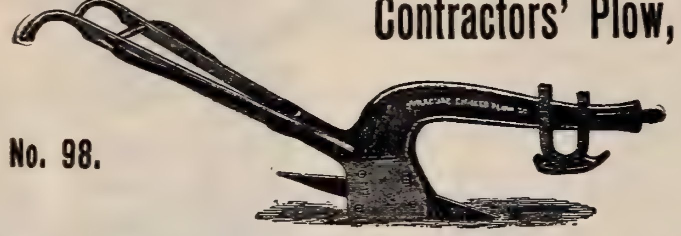


Contractors' Supplies. *

Road and Pavement Plows,
Picks, Shovels,
Dump Barrows, etc.

Contractors' Plow,

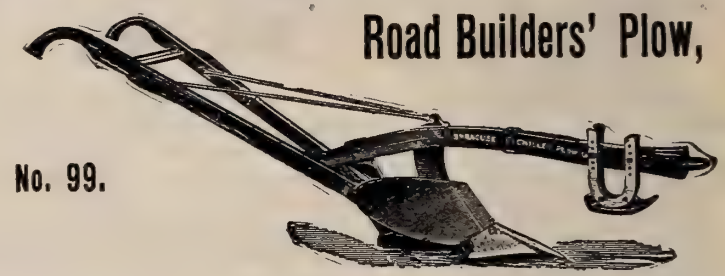
No. 98.



Adjustable and Double reversible Bar Steel Point. Adjustable Shoe in place of wheel; Loop Handle Wear Irons; strongly built throughout. Especially adapted for tearing up Cobblestone or MacAdam Pavements. Strong enough to work behind a steam roller. Four or six horses. Weight, 256 lbs. List, as shown in cut, **$25.00**; discount for cash, 20 per cent.

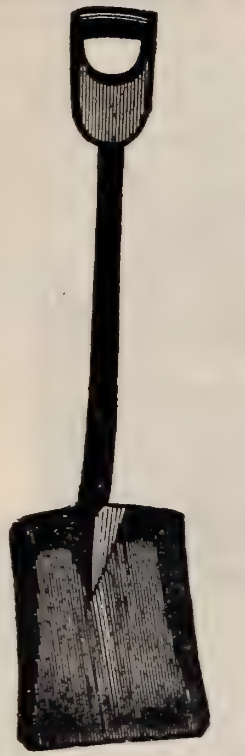
Road Builders' Plow,

No. 99.



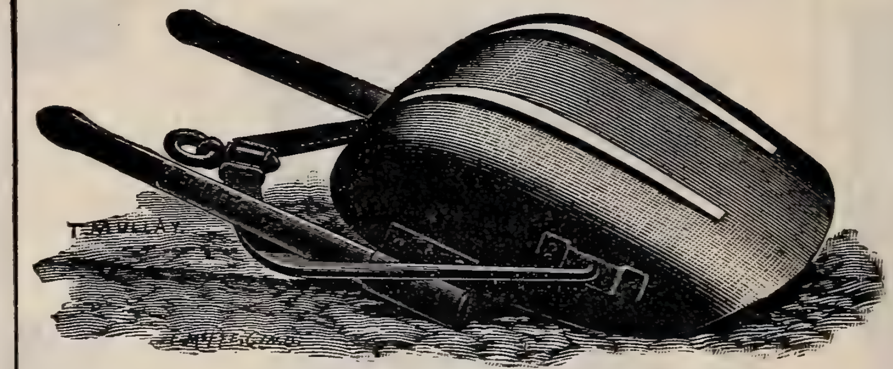
Steel Truss Beam; Steel Moldboard and Landside; Separate Shin Piece; Heavy Overlaid Wrought Steel Point; Adjustable Shoe in place of Wheel; Loop Handle Wear Irons; very strongly built; slight turning capacity. Suitable for severe grading purposes in shale or hard pan. Four to eight horses. Weight, with Shoe, 265 lbs. List, as shown in cut, **$33.00**; dis. for cash, 20 per cent.

Ames Shovels.



We handle Ames make of Shovels exclusively, as we have found after several year's experience that they will outwear any other make and are well worth the difference in price. The following are all polished steel: Ames' Best, each, $1.20; Our Best, $1.00; Sunnyside, 90c.; Champion, 75c. Can furnish either long or D handle, square or round point. Special price in doz. lots.

BOSS STEEL SCRAPERS



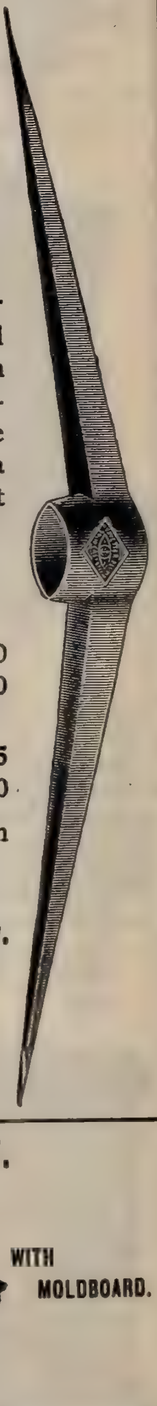
These scrapers are made from heavy plates of specially hardened steel and are stamped from one sheet without joint, seam or rivet. They are superior to any other drag scraper made.

Owing to the sharp, rounded nose, it will enter the ground readily. The bails are steel with perfect swivels and hardwood handles.

Four sizes.

	NET PRICE.
No. 0, carries 10 feet of earth	$10.50
No. 1, carries 7 feet of earth	7.00
No. 2, carries 5 feet of earth	6.50
No. 3, carries 3 feet of earth	6.00

Plumb's Picks.



There is no better line of picks and mattocks made than the above. We warrant every one we sell and never had a poor one brought back.

PRICES:

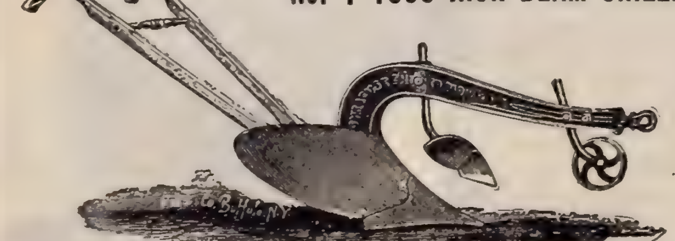
Contractors,	
7 lbs. each,	$ .90
8 lbs. each,	1.00
Railroad.	
5 to 6 lb.,	.75
6 to 7 lb.,	.80

Special price in dozen lots.

Pick Handles—Hickory.

No. X, each, 25c.
No. 1, each, 20c.
No. 2, each, 15c.

No. 1 1898 IRON BEAM CHILLED PLOW.

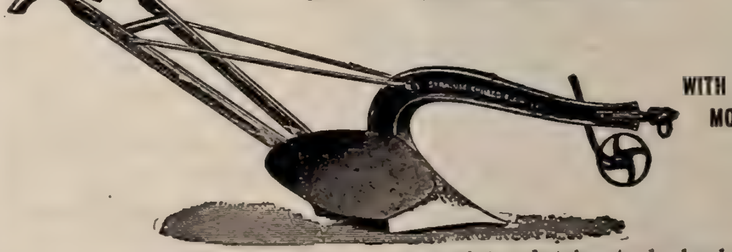


Chilled Wearing Parts.

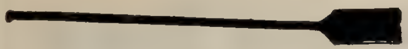
Unequalled for hard and stony ground. Will stay in the ground where all others fail. Excellent for plowing ditches; large two horse. List as shown in cut, **$13.00**; discount for cash, $1.00.

No. 1 CONTRACTORS' PLOW.

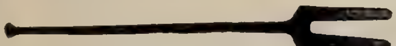
WITH MOLDBOARD.



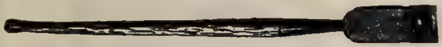
Hard Iron wearing parts; heavy beam, point and strip; steel wheel standard. Will turn a furrow 5 to 9 in. deep, and 12 to 15 in. wide. An excellent plow for general grading purposes. Two or four horse. Weight with wheel, 172 lbs. List as shown in cut, **$14.00**; discount for cash, $1.00.



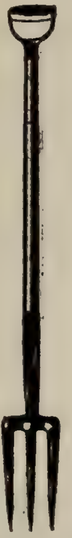
No. 44. Calking Bar, - - $2.50



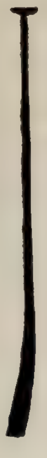
No. 43. Splitting Fork, - $4.25



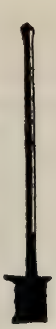
No. 47. Socket Packing Chisel, $3.25



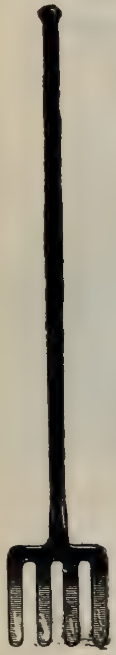
No. 135.
Ice Breaker.
Price, $3.50



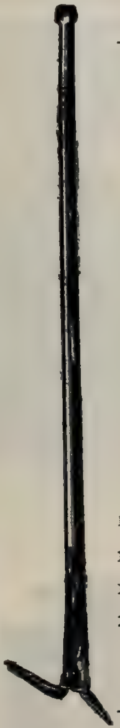
No. 45.
Starting Chisel.
Price, $3.25



No. 41.
House Bar.
Price, $2.50



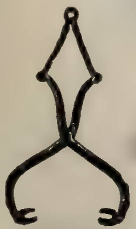
No. 42.
Fork Bar.
Four Prong.
Price, $4.25



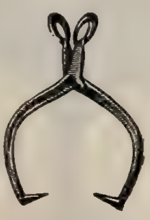
No. 16.

No. 16 ICE HOOKS.

	List.	Each.
3 ft.,	$ 9.00	$ .75
3½ "	9.00	.75
4 "	9.25	.80
4½ "	9.25	.80
5 "	9.50	.90
6 "	10.00	.95
8 "	11.75	1.05
10 "	12.50	1.15
12 "	14.00	1.25
15 "	15.50	1.35
18 "	17.00	1.50



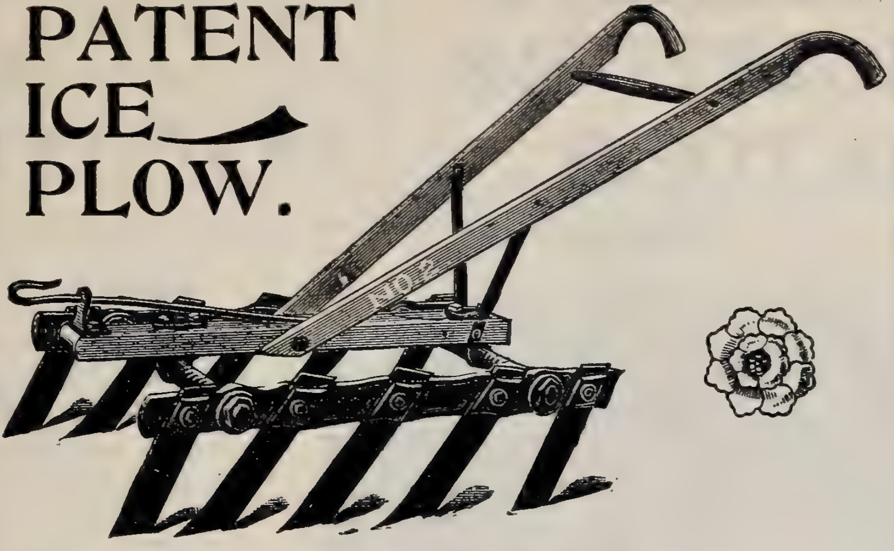
No. 33.
Hoisting Tongs with Claw Points.
Price, $4.50



No, 30.
Swell Pattern Steel Tongs.

	List.	Retail.
15 in.,	$12.75	$ .90
18 "	14.50	1.00
21 "	15.50	1.10
24 "	17.00	1.15
27 "	18.00	1.20

THE BUCKLEY PATENT ICE PLOW.



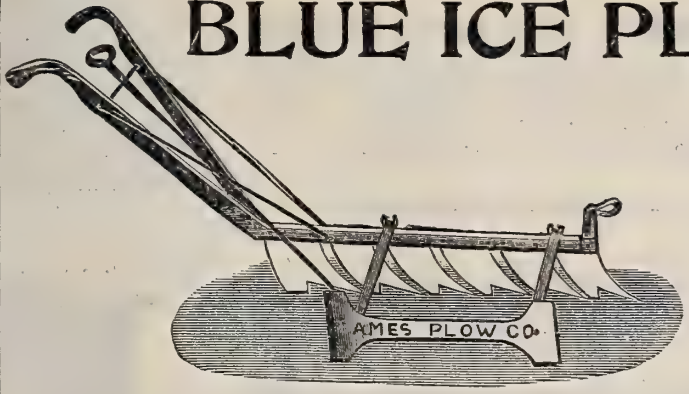
This plow is designed for farmers and small ice dealers. It is a perfect plow in every way and just as good, for a farmer, as one that costs $50.00. Cuts two grooves at a time and cuts any size of cake.

The No. 1 has 4 cutting teeth and cuts 5-8 of an inch on each side at one time. Will cut 6 3-4 of an inch deep; size of cake 16 to 22 inches; capacity, 30 to 50 tons per hour.

The No. 2 is made heavier than No. 1 and is the size mostly used; has six cutting teeth and cuts 7-8 of an inch on each side at one time. Will cut 7 inches deep; size of cake, 16 to 22 inches; capacity from 40 to 70 tons an hour. We also have the No. 2 to cut 16 to 24 inches and 18 to 30 inches.

		Will Cut	List.	Retail.
Price. No.	1.	(16 to 22),	$16.00	$16.00
"	2.	(16 to 22),	20.00	20.00
"	2.	(16 to 24),	22.00	21.00
"	2.	(18 to 30),	23.00	22.00

RED, WHITE AND BLUE ICE PLOW.


AMES PLOW CO.

PRICE, $25.00

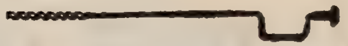
This plow is put on the market to meet the demands of icemen for a first-class implement at a low price. It has the Patent Clearing Tooth and Swing Guide. The material used is the finest and the finish is very attractive. Will cut 1 3-4 to 2 inches at a time to a total depth of 7 inches.

WE HANDLE A COMPLETE LINE OF

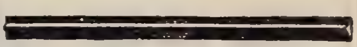
ICE ✣ TOOLS

DEALERS AND ICEMEN WRITE FOR

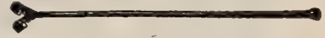
DISCOUNT.



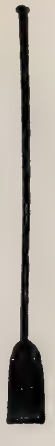
No. 9. Ice Auger, 1½ in., $3.00



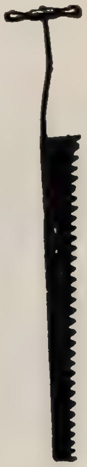
No. 72. Iron Run. (Drilled.)
Per Foot, 7 cents.



No. 8. Line Marker, - 90c.

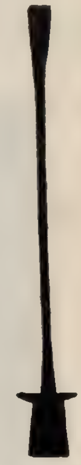


No. 46.
Bar or Packing Chisel.
Price, $3.25

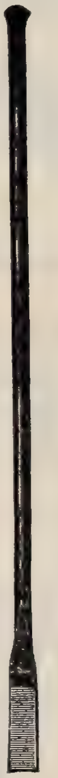


No. 15.
Ice Saw.

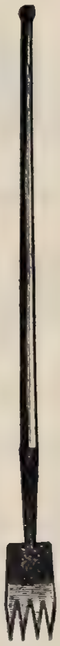
4 ft.,	$3.00
4½ "	3.25
5 "	3.50



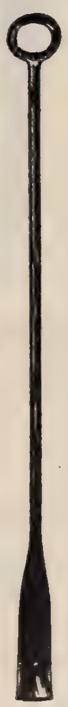
No. 39.
Breaking Bar.
Price, $3.25



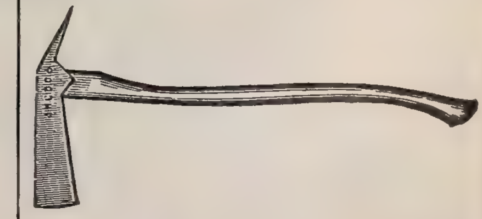
No. 50.
Splitting Chisel.
Price, $2.25



No. 136.
Ice Shaver.
Price, $2.25



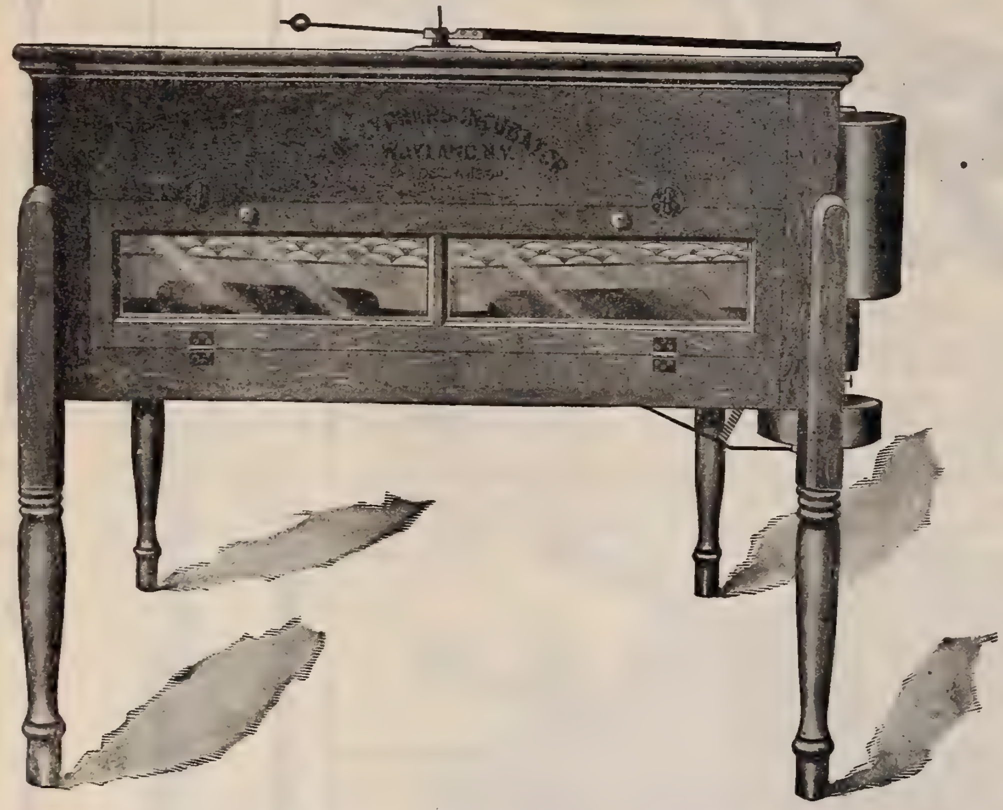
No. 51.
Ring Handle Splitting Chisel.
Price, $2.50



No. 115. Boston Ice Axe. 30-Inch Handle.
Price, - - $1.75

THE CYPHERS NON-MOISTURE INCUBATORS . .

SELF-REGULATING AND SELF-VENTILATING.



THE CYPHERS Non-Moisture, *Self*-Ventilating, Self-Regulating Incubator, 220-Egg *Size.*

PRICE LIST OF CYPHERS INCUBATORS

No. 0, 60 Hen Eggs, 48 Duck Eggs,	$14.00	No. 3, 360 Hen Eggs, 190 Duck Eggs,	$37.00
" 1, 120 " " 100 " "	20.00	" 2, Double Decker, 440 Eggs,	58.00
" 2, 220 " " 190 " "	29.00	" 3, Double Decker, 720 Eggs,	74.00

Freight Paid at Above Prices to any Freight Depot in the United States.

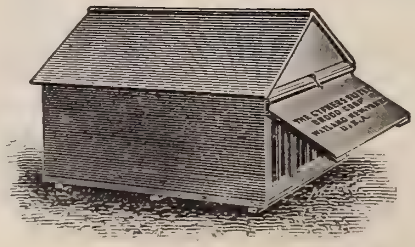
THE CYPHERS INCUBATORS, for which we are authorized agents, are FULLY GUARANTEED by the manufacturers as follows:—To require no supplied moisture; to be self-ventilating; to be self-regulating; to operate with less oil and at less expense than any other make of incubator; to be fire-proof, having the best, the safest, and the most costly built heater attached to any incubator; to be the easiest to operate and control, requiring less labor and attention than any other make of incubator; to produce larger and stronger chicks than any other make of incubator on the market; also, that where it is run with any incubator of a different make, it shall, in three or more hatches bring out a larger percentage of the fertile eggs in good, healthy chicks or ducklings than does its competitor.

The Result is an Incubator that is Positively Self-Regulating, Self-Ventilating and which Requires No Supplied Moisture.

The Cyphers Incubators and Brooders are used and recommended by a larger number of State Experiment Stations than all the other makes combined. They are also used by the largest poultry raisers in the United States; whether you are in it for fun or money you will make no mistake if you buy the CYPHERS.

Special Advantages in Buying of us: First, we sell to you at factory prices. Second, we save you valuable time by carrying a large line of Cyphers Incubators and Brooders in stock, thus securing you Quick Delivery, the saving in time amounting to perhaps three or four weeks. Third, we save you freight from the factory to your place. This is highly important. The Cyphers goods are constantly on display at our place of business, and we invite a personal call, if convenient. All told, it is plainly to YOUR ADVANTAGE to place your order with us. We guarantee fair treatment and prompt service in all particulars.

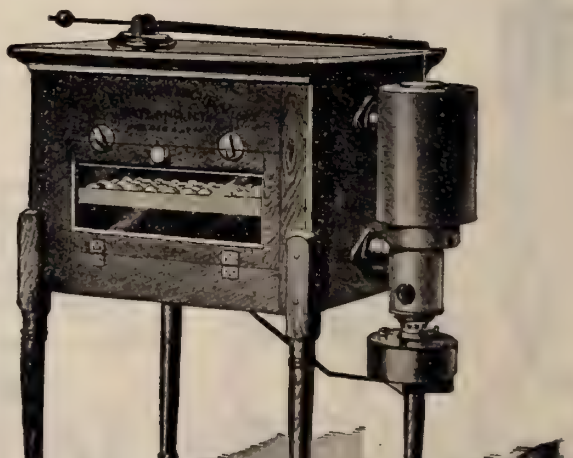
The Cyphers Handy Brood Coop



FOR HENS AND CHICKENS.

PRICE, - $1.50.

3 FOR $4.00.

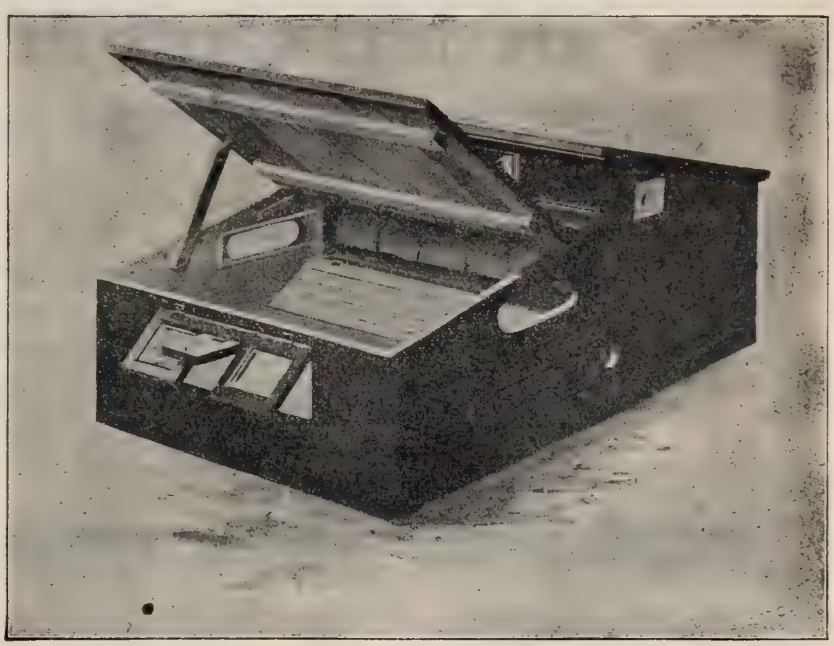


THE CYPHERS No. 0, 60 Egg Size Incubator.

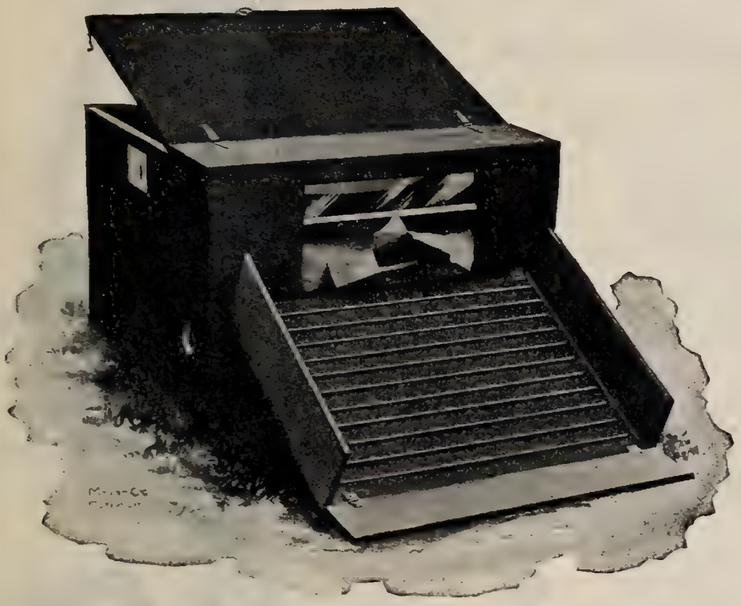
THE UNEQUALLED CYPHERS THREE-APARTMENT BROODER for Outdoor Use and the CYPHERS SECTIONAL INDOOR BROODER.

Next to its incubator, The Cyphers Company especially prides itself on the three-apartment Outdoor Brooder it manufactures. They unhesitatingly guarantee this to be the best brooding device on the market, for either indoor or outdoor use, regardless of price, and it will be noted that all of the Cypher Brooders (the Company manufactures one grade only, but two sizes) are sold at reasonable figures.

The Cyphers Sectional Brooder, made in three sizes, embody several important improvements over the other makes of sectional brooders on the market. The floor of the Cyphers Sectional Brooder is adjustable, so that it can be raised up to within a few inches of the hot water pipes, or lowered, as desired, for the larger and older chicks. When the floor is raised, a runway extends down to the floor of the house, which serves a double purpose. It can, and should, be closed on cold nights, thus not only preserving the heat in the brooder and keeping the chicks from wandering away from the heat, but also making the brooder absolutely rat-proof. No other sectional brooder on the market has these important advantages.



The Cyphers Unequalled Three-Apartment Outdoor Brooder (front view) Style A.



The Cyphers Indoor Brooder, Style B.

Price List of Cyphers Indoor and Outdoor Brooders.

Style B—Indoor,	$10.00
Style A—Outdoor,	12.00

Price List of Cyphers Sectional Brooders.

Two Section, All Complete,	$18.00
Three " " "	23.00
Four " " "	28.00

Each Section will Care for 100 Chicks.

PRIZE BROODER.

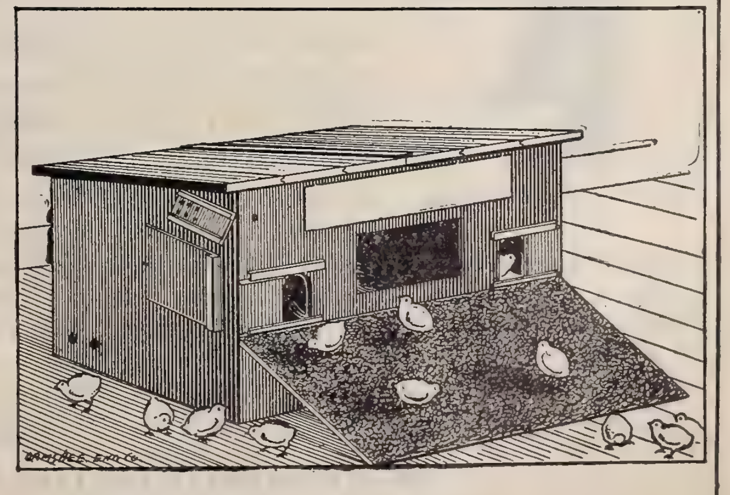
◉ ◉ ◉ ◉

This is the best cheap brooder on the market; it is built to set close to the ground, and there is no open space for the cold to get in. The lamp is very easy of access, the floor being raised up from the ground. There is no danger of water, and for beginners who do not want to buy a Cyphers we can recommend this one.

We have sold a lot of them and they give perfect satisfaction.

Net Cash Price, $5.50. F. O. B., Worcester.

If shipped from factory, $5.00



$5.00 Outdoor Prize Brooder.

MANN'S NEW 1902 MODEL OPEN CYLINDER BONE CUTTERS.

Practical Poultrymen

are for the most part concerned with facts.

They want eggs when eggs are worth most, and they want to produce them at the least cost.

They want to maintain the health of their flocks and promote growth.

And every year more of them are demonstrating to their own satisfaction that raw bone, meat and gristle do these things.

The Fowl Demands Raw Animal Food.

Every one knows how eagerly a fowl will chase clear across a half-acre lot to gobble up a bug or a worm.

When Hens Get Such Food

in abundance they lay in abundance. When they are deprived of such food they do not lay so abundantly.

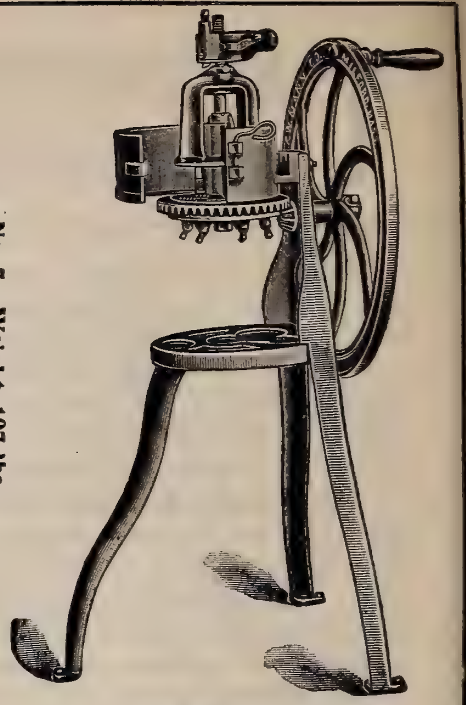
It is the poultryman's business to see to it that they get raw animal food in some form. He can not attain the best success if he neglects it.

Properly Cut Green Bone,

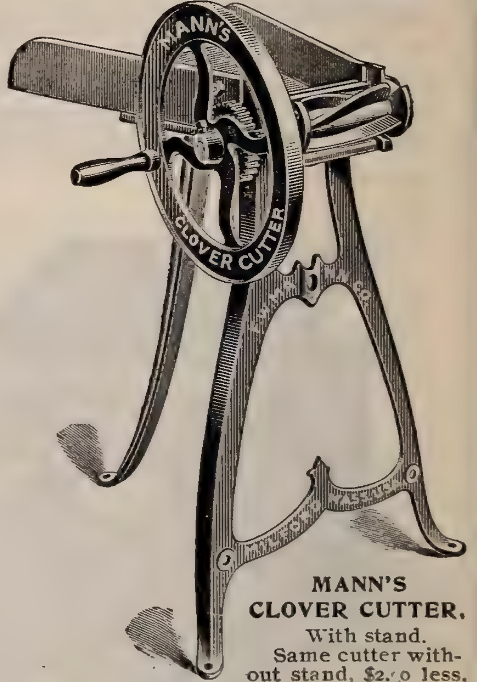
with meat and gristle attached, supplies this food in the most available form.

And the *MANN'S* provides the easiest and quickest way of preparing it.

TRY IT AND SEE.



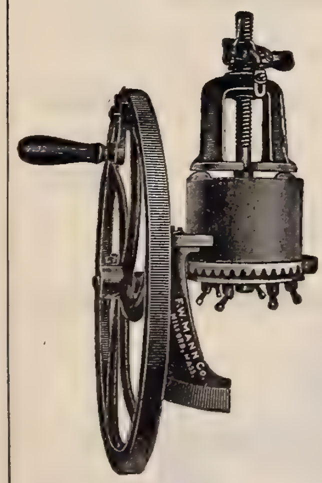
No. 7. Weight, 107 lbs.



MANN'S CLOVER CUTTER.
With stand.
Same cutter without stand, $2.00 less.
Made entirely of iron and steel.

NET CASH PRICE LIST.

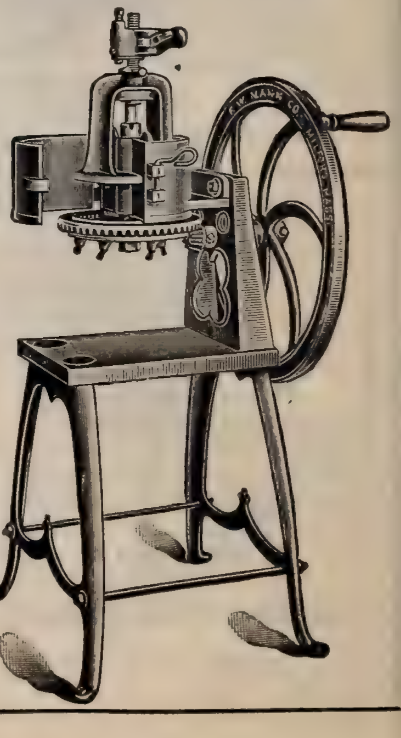
No Discount from these Prices.



No. 5B. Weight, 55 lbs.

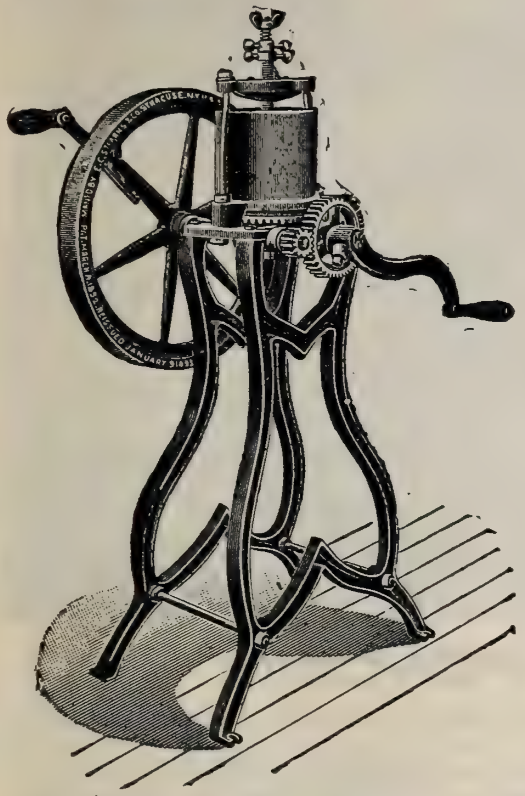
No. 5C	(with Crank Handle)	$ 6.00
No. 5B	(with Balance Wheel)	8.00
No. 5BM	(with Bal. Wheel and Iron Stand)	10.40
No. 7	(with Balance Wheel)	12.00
No. 9	(Standard Bone Cutter, Iron Stand)	18.40
No. 11	(Combination Power Cutter)	26.00
No. 12	(Small Power Cutter)	30.00
No. 15	(Large Power Cutter)	60.00
No. 14	(Large Power Cutter)	76.00
No. 16	(Made to Order)	225.00
Clover Cutter	(with Balance Wheel)	8.00
Clover Cutter	(with Balance Wheel and Iron Stand)	10.00
Mortar	(Perforated, Cast Iron)	3.00
Swinging Feed Tray	(18 inches long)	1.00
Swinging Feed Tray	(27 " ")	1.25
Swinging Feed Tray	(36 " ")	1.50

Notice Reduction in List Price from Last Year.



No. 9. Weight, 163 lbs.

THE STEARNS BONE CUTTER.



No. 7. Weight 135 lbs.

Net Prices of Stearns Green Bone and Clover Cutters.

No. 2, with short legs	$12.00
No. 3, for power	30.00
No. 3, with gearing and extra balance wheel	35.00
No. 4, with balance wheel	7.00
No. 4, with crank	5.00
No. 6, with legs	15.00
No. 6, for use on bench	12.00
No. 7, with legs and bail bearing	20.00
No. 5, with heavy balance wheel	8.00

Stearns Clover Cutter, $3.00.

"Don't Keep Hens, Make Them Keep You."

GREEN CUT BONE Properly Fed will increase the production of eggs from fifty to one hundred per cent. It will give you strong, vigorous chicks, will promote their rapid growth, and reduce the liability of disease.

This is acknowledged by the most prominent poultry experts in the country, and it has been proven by actual tests made by the many users of

Stearns Green Bone Cutters.

The Stearns Green Bone Cutter.

Has a drop forged, hardened steel cutter head, a single single solid piece of steel.

It *mills* the bone, and therefore makes it fine, and is the only machine made that embodies this principle.

It makes a clean shear cut.

It is self-clearing and cannot become clogged.

It cuts with ease hard green bone, clear soft meat or gristle, and cuts it fine enough for chicks a few days old.

All models have an absolutely automatic feed.

The hoppers have a liberal capacity and are without partitions.

The No. 7 Bone Cutter is equipped with bicycle ball-bearings. It is also back-geared three to one, thus producing a machine that will run three times as easy as one not geared.

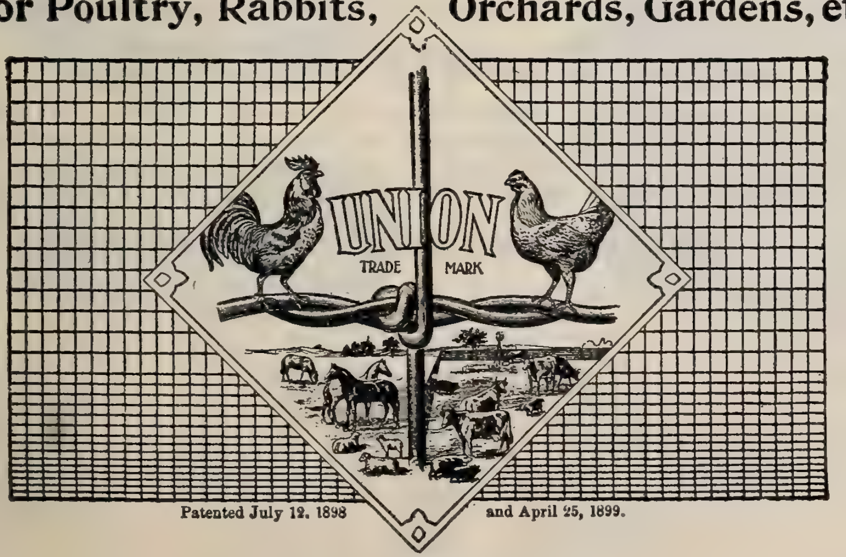
Models No. 6 and 7 have a self-adjusting feed pressure.

Model No. 2 has an adjustable feed.

UNION LOCK POULTRY FENCE.

For Poultry, Rabbits, Orchards, Gardens, etc.

All main strands are two wires twisted together.



Patented July 12, 1898 and April 25, 1899.

Pickets 3 in. apart. Cables 1¼ in. apart at bottom.

NET RETAIL PRICE LIST.

10 Rod Rolls (165 feet)	24 in. wide,	$2.80	10 Rod Rolls (165 feet)	60 in. wide,	$4.75
10 " "	36 "	3.50	10 " "	72 "	5.40
10 " "	48 "	4.00			

In comparing prices with ordinary poultry netting remember these bales are 15 feet longer. We don't sell less than full rolls.

THE horizontal lines of this fence are all composed of two No. 20 galvanized steel wires twisted together.

Beginning at the bottom the first seven cables are 1¼ inches apart, the next three cables are 1½ inches apart, then six cables 2 inches apart, and all above that 4 inches apart. This gives a mesh of 1¼ x 3 inches at the bottom where it is needed for small chicks, and above two feet, where fowls can only reach when on the wing, the mesh is 3 x 4 inches.

On account of the picket being at right angles to the cables, this fence will fit any unevenness of the ground without cutting, which is an advantage not possessed by any diamond mesh netting or diagonal mesh fencing.

As all of the cables are of the same length and run the whole length of the fabric every part can be stretched perfectly. The fence is amply strong as the breaking strain of a No. 20 two-wire cable is 192 pounds and there are 10 cables in the first foot of fence.

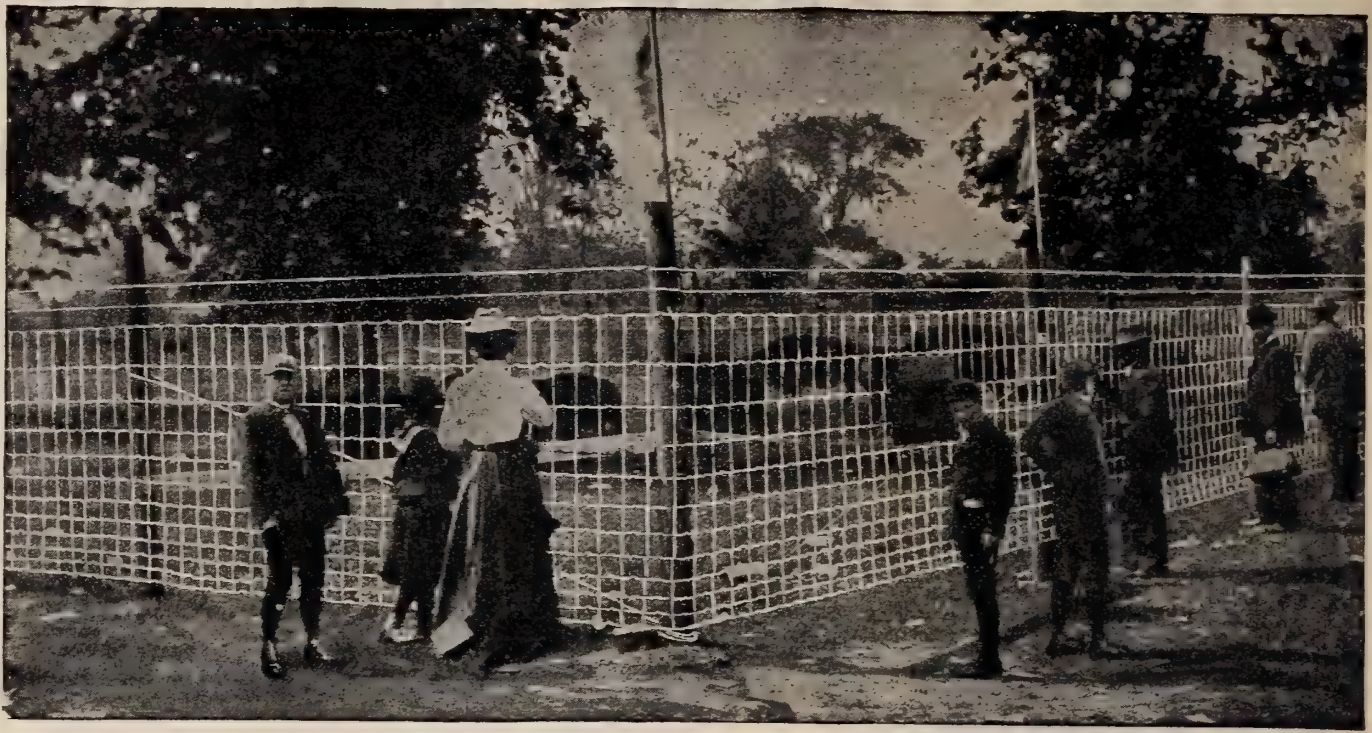
Because of its strength and construction this fence requires no top or bottom rail.

American Field and Hog Fences. ♣

MADE OF GALVANIZED WOVEN STEEL WIRE.

The strength and durability of the AMERICAN FENCES, together with their low cost, combine to give them a wonderful popularity.

Construction. — The main structural features are: Large and strong wires throughout; top and bottom bars No. **9** galvanized wire; intermediate bars No. **11** galvanized wire; stays No. 12 galvanized wire; stays 12 or **6** inches apart, as desired; Hinge Joints at every intersection of stay and bar; Tension Curve at every intersection of stay and bar and at proper intervals between stays.



AMERICAN FIELD AND HOG FENCING.

It is the Strongest Fence Made because of the good quality and amount of material properly distributed throughout its entire construction. No. 9, No. 11, No. 12 wire as used in the AMERICAN FENCE are sufficiently heavy and strong to meet all requirements, and with them the AMERICAN FENCE is practically everlasting, with reserve strength enough to meet every possible contingency or special use to which this fence may be subjected.

Regular Style, 12-Inch Stay.

Style No.	Height.	Price per rod.
12	58 inches	$ .92
11	49 "	.82
10	41 "	.74
9	34 "	.66
8	28 "	.58
7	22½ "	.50

Regular Style, 6-Inch Stay.

Style No.	Height.	Price per rod.
12	58 inches	$1.16
11	49 "	1.04
10	41 "	.90
9	34 "	.82
8	28 "	.72
7	22½ "	.62

Special Hog, Cattle, Horse Fence, 12-Inch Stay.

Style No.	Height.	Price per rod.
11	55 inches	$ .84
10	47 "	.74
9	39 "	.66
8	32 "	.58
7	26 "	.50
6	20 "	.38

Special Hog, Cattle, Horse Fence, 6-Inch Stay.

Style No.	Height.	Price per rod.
11	55 inches	$1.10
10	47 "	.98
9	39 "	.84
8	32 "	.74
7	26 "	.62
6	20 "	.54

Special Sheep and Horse Fence, 12-Inch Stay.

Style No.	Height.	Price per rod.
6	35 inches	$ .50

Special Sheep and Horse Fence, 6-Inch Stay.

Style No.	Height.	Price per rod.
6	35 inches	$ .66

Specal Farm Fence, 12-Inch Stay.

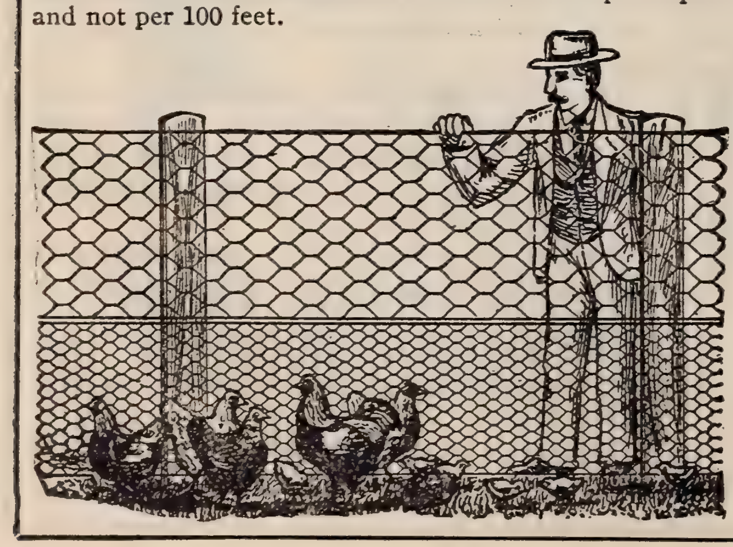
Style No.	Height.	Price per rod.
9	49 inches	$ .70
8	45 "	.62

Special Farm Fence, 6-Inch Stay.

Style No.	Height.	Price per rod.
9	49 inches	$ .92
8	45 "	.78

Galvanized Special Twist Poultry Netting.

A Very Popular Fence for poultry yards, or for any purpose, where a heavy stock fence is not required. This fence is woven and afterwards galvanized, which makes it very durable. We can furnish it in all widths, from one to six feet, and in one and two-inch mesh. We handle this in very large quantities, and are, therefore, in position to make very low prices, as you will see below. Parties wanting five or more rolls will do well to write us for special prices. **Please take notice** that the prices quoted are for rolls of 150 feet in length and not per 100 feet.



Price Per Roll of 150 Running Feet.

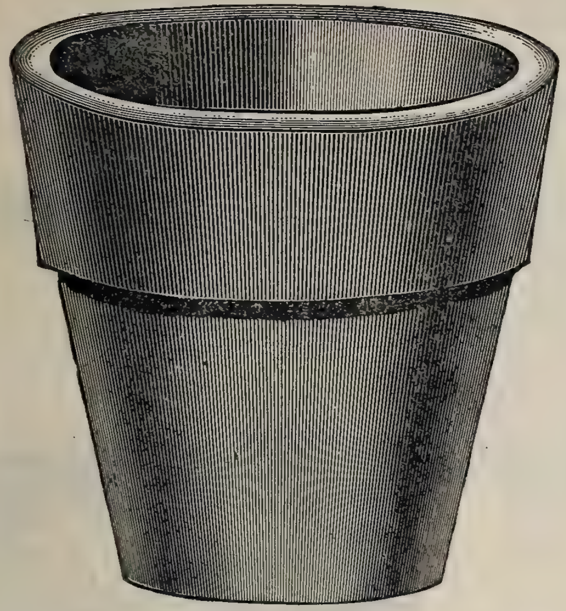
1	ft.	No. 19 Wire,	2 in.	Mesh,	$ .75	1	ft.	No. 20 Wire,	2 in.	Mesh,	$ .70
1½	"	"	"	"	1.15	1½	"	"	"	"	1.05
2	"	"	"	"	1.50	2	"	"	"	"	1.40
2½	"	"	"	"	1.90	2½	"	"	"	"	1.75
3	"	"	"	"	2.25	3	"	"	"	"	2.10
4	"	"	"	"	3.00	4	"	"	"	"	2.80
5	"	"	"	"	3.75	5	"	"	"	"	3.50
6	"	"	"	"	4.50	6	"	"	"	"	4.20
1	"	"	1 in.	"	2.00	1	"	"	1 in.	"	1.65
1½	"	"	"	"	3.00	1½	"	"	"	"	2.50
2	"	"	"	"	4.00	2	"	"	"	"	3.30
2½	"	"	"	"	5.00	2½	"	"	"	"	4.15
3	"	"	"	"	6.00	3	"	"	"	"	5.00
4	"	"	"	"	8.00	4	"	"	"	"	6.60
5	"	"	"	"	10.00	5	"	"	"	"	8.25
6	"	"	"	"	12.00	6	"	"	"	"	10.00

We do not have 4, 5 and 6 feet 1 inch, 19 and 20-inch in stock.

PRICE LIST OF A. H. HEWES STANDARD FLOWER POTS

If You Buy STANDARD POTS You Will Not Be Disappointed—As They Always Give Perfect Satisfaction.

STANDARD POTS.

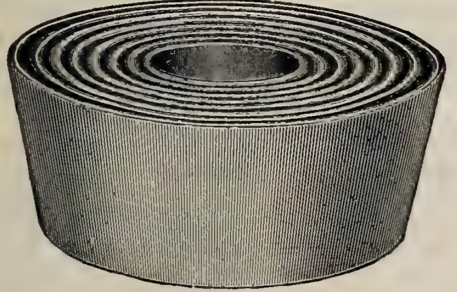


2 1-4 inch.

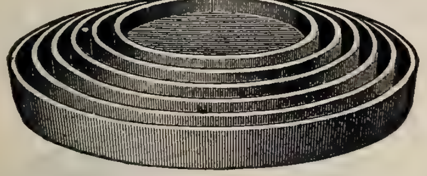
Price per M, ... $9.00

FERN PANS.

Something new in Fern Pans and Saucers. These pans are made thin and strong, and the saucers very shallow. They are very popular, and are made in eight sizes, to be sold with or without saucers. The pans are especially adapted for linings to porcelain and Silver Fern pans. Dimensions given are outside measurements.

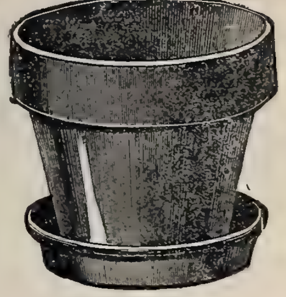


No. 388.



Saucers for No. 388.

Size.		Pots.	Saucers.
4 x 1⅞ in.,	per hundred,	$ 3.00	$ 1.80
4¾ x 2⅛ in.,	" "	4 00	2.30
5½ x 2¼ in.,	" "	5.00	3.00
6¼ x 2½ in.,	" "	6.00	3.50
7 x 2⅝ in.,	" "	7.00	4.00
8 x 3⅛ in.,	" "	10.00	6.00
9 x 3¼ in.,	" "	12.00	8.00
10 x 4 in.,	" "	14.00	10.00



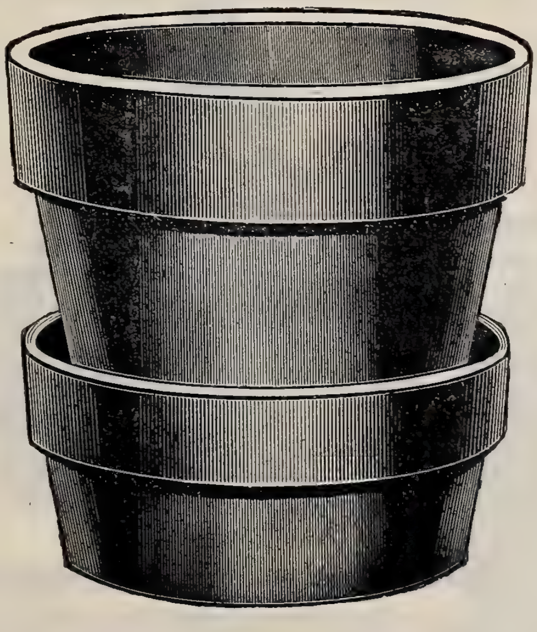
FLOWER POTS AND SAUCERS. STANDARD. WITH RIMS.

Inside measurement, width and depth equal.

Size.	Per M.	Size.	Per M.
1¾ in.	$7.00	2½ in.	$11.00
2 in.	8.00	2¾ in.	12.50
2¼ in.	9.00	3 in.	14.00

Size.		Pots.	Saucers.	P.&S.
4 in.	per hund.	$ 2.20	$ 1.80	$ 4.00
5 in.	"	4.00	2.25	6.25
6 in.	"	6.00	3.00	9.00
7 in.	"	10.00	4.00	14.00
8 in.	"	14.00	6.00	20.00
9 in.	"	20.00	8.00	28.00
10 in.	"	27.00	10.00	37.00
11 in.	"	36.00	12.00	48.00
12 in.	"	50.00	15.00	65.00
13 in.	"	75.00	20.00	95.00
14 in.	each	1.00	.25	1.25
15 in.	"	1.50	.30	1.80
16 in.	"	2.00	.35	2.35
18 in.	"	3.00	.50	3.50

CALLA LILY POTS.



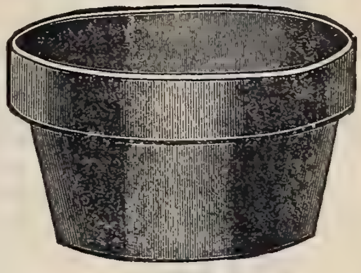
No. 304.—Unpainted.

8 in., each, ...	30c
10 in., each, ...	60c

No. 305.—Painted Red.

8 in., each, ...	50c
10 in., each., ...	75c

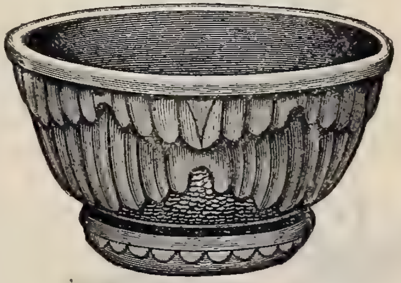
ROUND SEED PANS.



No. 309.

6 in.	Round, per hund.,	$6.00
7 in.	" "	8.00
8 in.	" "	10.00
9 in.	" "	14.00
10 in.	" "	18.00
12 in.	" "	25.00
14 in.	" "	50.00

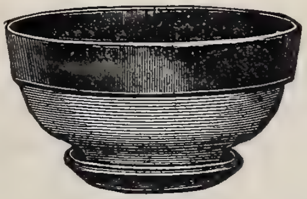
HANGING VASE.



No. 406.

7 in.,	each, 20c.	Doz., $2.00
8 in.,	each, 25c.	Doz., 2.50
9 in.,	each, 30c.	Doz., 3.00

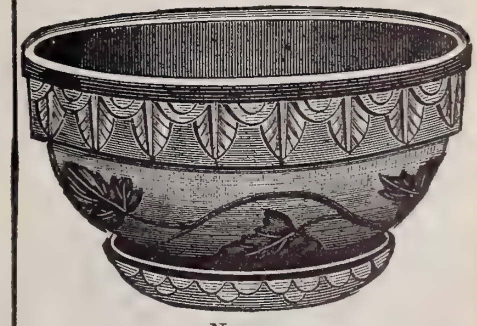
HANGING VASE.



No. 268.

6½ in., each, 15c. Doz., $1.50

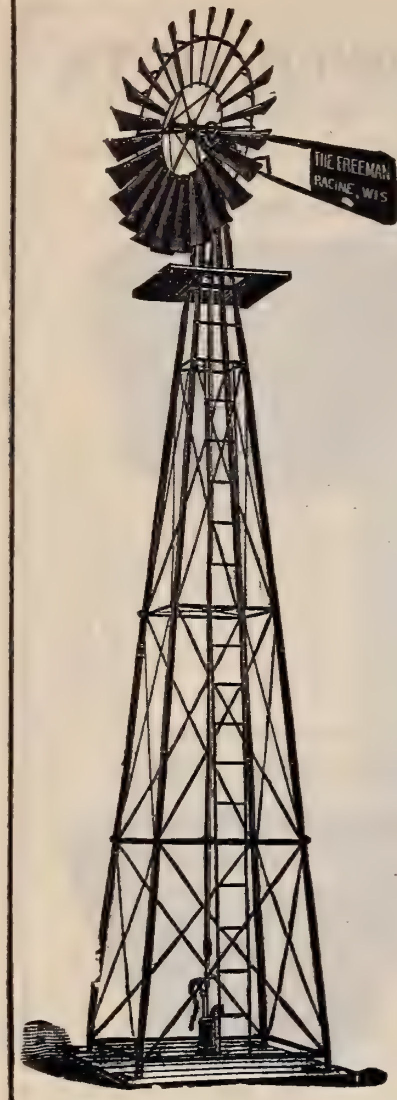
HANGING VASE.



No. 333.

7 in., each,	20c.	Per dozen,	$2.00
8 in., each,	25c.	Per dozen,	2.50
9 in., each,	30c.	Per dozen,	3.00

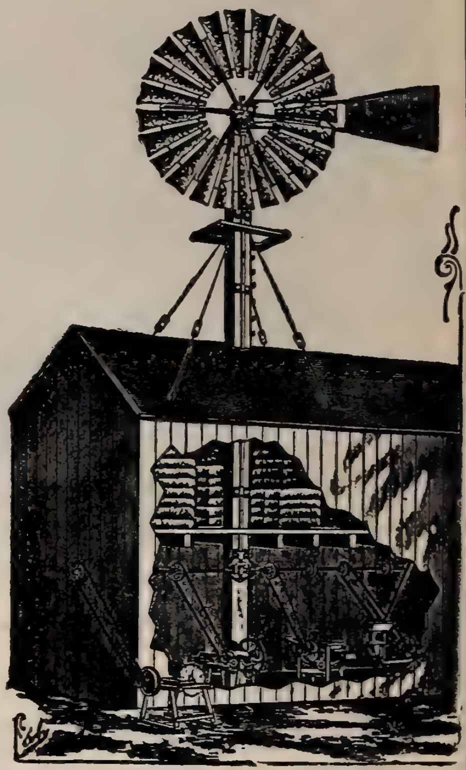
Discount on Standard Pots and Seed Pans, 20 Per Cent for any Quantity Less than 100—Lots of 100 or Over 25 Per Cent—500 and Over 40 Per Cent—Larger Lots Ask for Price.—Hanging Vases and Calla Pots are Net.



WIND, HORSE AND STEAM POWERS.

THE FREEMAN STEEL WINDMILL.

In designing these mills, great care has been used to obtain the greatest amount of power with the least amount of friction, and to secure a governing device which would be both effective and reliable. That we have succeeded is acknowledged by all who have used our mills, and we court a thorough examination by prospective purchasers.



LIST PRICE OF STEEL PUMPING MILLS AND TOWERS.

Diameter of Wheels.	Weights.	Painted List Prices.	Galvanized List Prices.
8 feet	330 lbs.	$37.50	$42.50
9 feet	370 lbs.	40.00	47.50
10 feet	420 lbs.	45.00	52.50
12 feet	760 lbs.	82.50	90.00

STEEL POWER MILLS.

Diameter of Wheels.	Weights.	Painted List Prices.	Galvanized List Prices.
12 feet	800 lbs.	$ 87.50	$100.00
14 feet	1150 lbs.	120.00	140.00
16 feet	1600 lbs.	200.00	225.00

FOUR-POST ANGLE STEEL TOWERS.

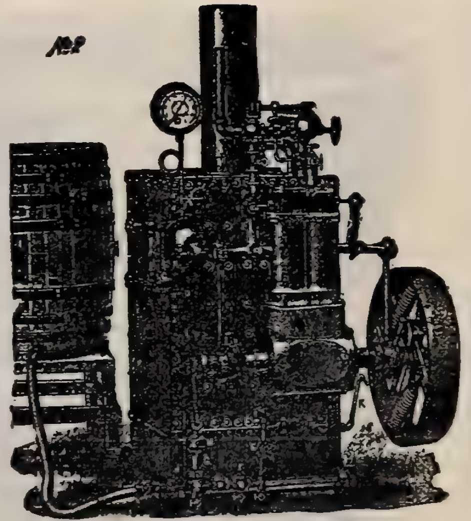
Style No. 1—For Pumping Mills.

Height.	Weights.	Painted List Prices.	Galvanized List Prices.
20 feet	350 lbs.	$25.00	$ 28.50
30 feet	535 lbs.	36.00	42.50
40 feet	700 lbs.	47.50	58.50
50 feet	940 lbs.	60.00	78.50
60 feet	1180 lbs.	75.00	100.00
70 feet	1485 lbs.	92.50	125.00
80 feet	1800 lbs.	110.00	150.00

Send for Catalogue giving list on Heavy Towers and Discount.

The Safe Engine and Boiler.

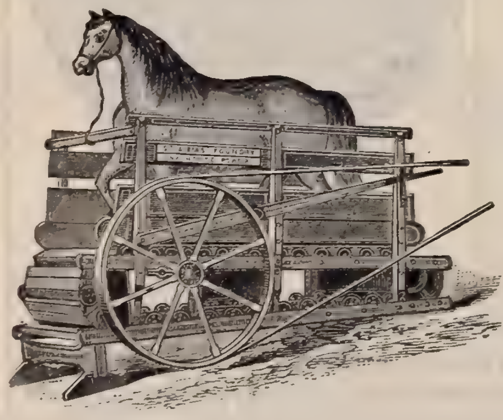
This engine is especially adapted for people who are inexperienced in the use of steam-power. Cranks running in water and oil, with automatic water feed, and all bearings are adjusted easily. Automatic draught, automatic oil, and everything as simple as skill can make it. The boilers are made from the Best Flange Steel and Extra Heavy Charcoal-Iron Lap Welded Boiler Tubes. Tested to 240 pounds per square inch. There is no large body of water to deal death and destruction in case of carelessness. Hard or soft coal, or wood such as old rails, knots, limb-wood, anything that will burn and is not fit to use in the house or to sell will make all the steam wanted, practically speaking, at no cost to the farmer. The fire box takes in wood twenty inches long. One can use hard or soft coal equally as well.



SIZES AND PRICES.

	List Price.	Net Cash Price.
3 Horse,	$250.00	$200.00
4 Horse,	325.00	260.00
5 Horse,	330.00	270.00
6 Horse,	400.00	325.00
8 Horse,	450.00	375.00
10 Horse,	500.00	425.00

The above prices include Boiler and Engine delivered at freight depot at the factory. Freight charges to be paid by the purchaser.

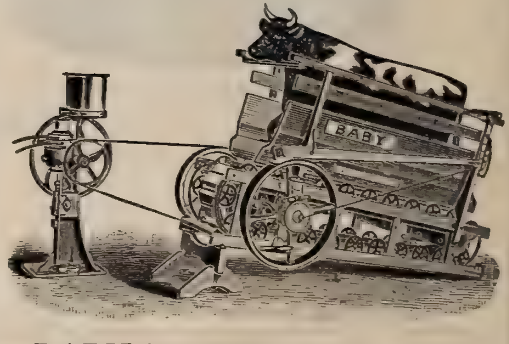


St. Albans Horse Powers.

We claim for this Horse Power an adaptability for farmers' use never equalled by any other power in the market. The study has been to so construct them that they should meet all their wants, and be easily adjusted to any and every use, particularly such as churning, sawing wood, and cutting hay and straw for feeding cattle and horses. It has of late been fully demonstrated that the farmer makes a large saving by cutting his hay, straw, stalks or other fodder, and mixing with the same a small portion of meal; and that he also gains very largely in the better condition of his stock.

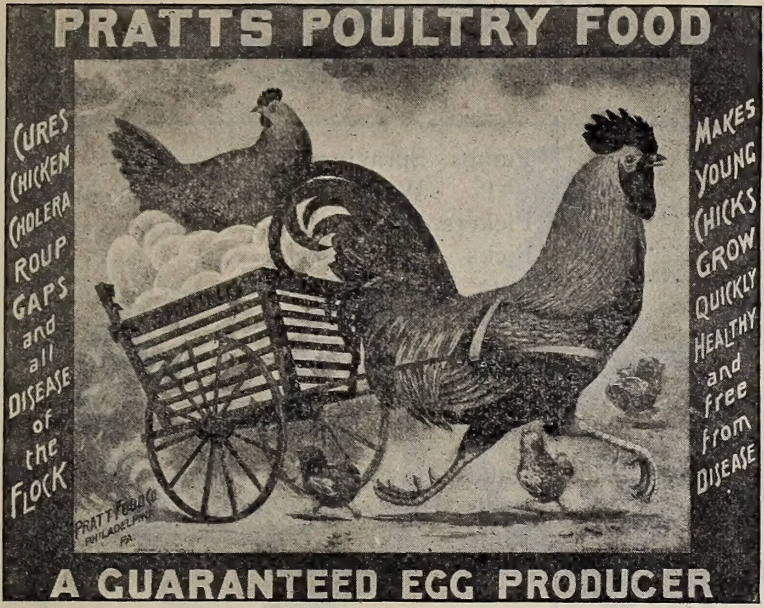
One-Horse Power, with Speed Regulator, $70.00.
Discount for Cash, $5.00.
Two-Horse Power, with Speed Regulator. $90.00.
Discount for Cash, $5.00.

Baby Power, with Speed Regulator, $45.00.
Discount for Cash, $5.00.



BABY POWER, for Running Cream Separators.

POULTRY FOODS AND CONDITION POWDERS of ALL KINDS.


PRATTS POULTRY FOOD
CURES CHICKEN CHOLERA ROUP GAPS and all DISEASE of the FLOCK
MAKES YOUNG CHICKS GROW QUICKLY HEALTHY and free from DISEASE
PRATT FOOD CO. PHILADELPHIA PA.
A GUARANTEED EGG PRODUCER

We Handle Poultry Supplies in Large Quantities, and We Have a Large Assortment of the Reliable Brands to Choose From.

Pratts Poultry Food

is the *Standard.* We have sold it for nearly ten years and our trade is constantly increasing. To obtain the best results it should be fed regularly. It keeps the poultry in a good, healthy condition, which is necessary to egg production.

PRICES.

Poultry Food, large size, each	$ .60
Poultry Food, small size, each	.25
Poultry Food, 12 lb. bags, each	1.25
Poultry Food, 25 lb. bags, each	2.50

Old Fashioned Beef Scraps. These Scraps are ground fresh for us, and do not contain any oyster shell or tankage, but are good fresh bone and meat. Per 100 lbs., $2.25.

Cracked Bone. Fresh cracked bone, without any meat, will keep for any length of time. Should always be kept in a box where the hens can get to it. Per 100 lbs., $2.00.

Ground Oyster Shells. We buy shells direct from Baltimore in one hundred ton lots, and handle nothing but the best grade, free from dust. Per 100 lbs., 60 cents.

Granite Grit. This is the best Milford Grit, crushed to just the right size for poultry or pigeons. Per 100 lbs., 75 cents.

Clover Meal. This is the latest and best food for all kinds of poultry. It is clover as near pure as can be had, finely ground, and is mixed with other kinds of feed, and being light, it makes a very nutritious food and is also an egg producer. Per 100 lbs., $2.00.

Cut Clover. This is same as above, only cut about one-quarter of an inch long, and is either fed dry or mixed with feed. Per 100 lbs., $2.00.

Sea Shells. This is similar to common oyster shells, only they are very small shell and are fed whole, and as they contain a large amount of meat, are a grand egg producer. Per barrel of about 150 lbs., $1.75.

Sheridan's Condition Powders. These goods are known in every town and need no recommendation from us. Large size, regular $1.00 size, our price, 80 cents; small, 20 cents.

Dole's Horse, Cattle and Poultry Food. This is one of the best foods for either of the above. Once tried, always used. Large box, 75 cents.

Meat Meal. Is finely ground meat and blood, and is preferred by many to Beef Scraps, as it may be mixed with wet feed and prevents waste. Per 100 lbs., $2.00.

Wooden Medicated Nest Eggs. This is a wooden egg with a hole in it and stuffed with cotton, and by dropping in a few drops of carbolic acid once in a while, they will kill and prevent lice. Each, 5 cents, postpaid; dozen, by express, 30 cents.

Glass Nest Eggs. Each, 5 cents. Dozen, 30 cents.

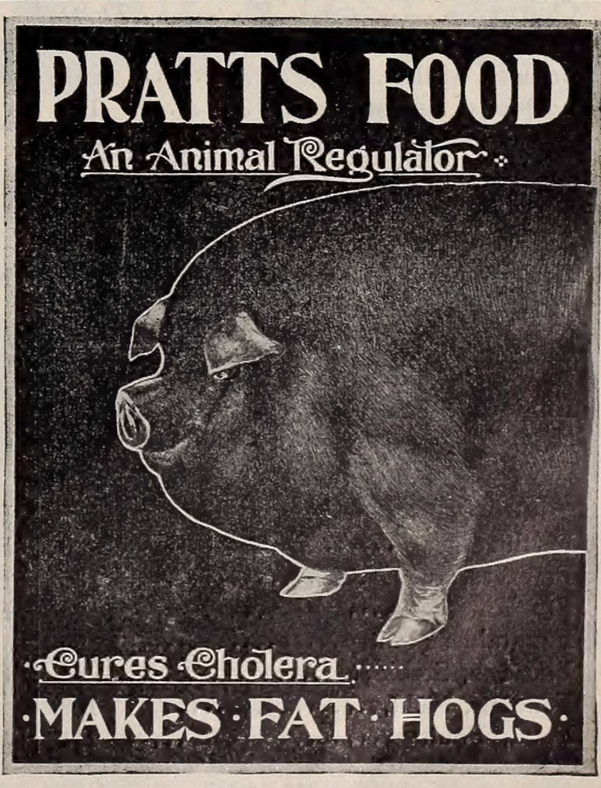
Kaffir Corn. This is probably one of the best, as well as the cheapest, food for hens, chickens or pigeons. It is about the size of a very small pea, and is fast taking the place of other grains for poultry food. Try it. Per 100 lbs., $1.75.

PRATTS HORSE, CATTLE AND HOG FOOD.

WHAT PRATT'S FOOD WILL DO FOR HOGS.

Hog cholera is positively unknown where Pratts Food is fed. Pratts Food positively prevents and cures hog cholera in its early stages. We have cured many cases of hog cholera when the animal has been too weak to stand and given up to die. It is to be remembered that Pratts Food is to be fed to *prevent* cholera as well as to *cure it.* The above is also true of cattle. The constant feeding of Pratts Food, which is the best animal regulator known, will enable the cattle to receive full benefit from their food.

Hog and Cattle Food, 12 lb. bags, each 75 cents. 25 lb. bags, each $1.50.



WYANDOTTE BRAND.

EVER READY CHICKEN FEED.

For a number of years, we have felt the need of a Chicken Food that could be fed to young chickens just out of the shell that would take the place of common grain usually fed, but would be a safe and nutritious food and one that could be sold at a medium price that would place it within the reach of the average Poultryman.

This food is composed of finely screened cracked grain, grit, charcoal and imported millets. These are mixed in the right proportions, so that it can be fed to chickens from the time they are hatched until they are ready for the market. There are a number of foods on the market, but all are so high in price that only Poultry Fanciers can afford to feed them. Our prices are based on a fair margin of profit and we are confident that it will fill a long-felt want.

We will mail samples free. Price, 25 lb. bag, 75 cents. 50 lb. bag, $1.35. 100 lb. bag, $2.50.

Davis, Printer, Worcester, Mass.

INDEX.

A

Page.
Ashes 56
Atomizers 88–89

B

Baskets, Berry 95
Barrows, Garden 100
" Dump 100
Bulbs 51–56
Bone 56
Boxes, Butter 79
Bottles, Milk 81
Brooders 105

C

Carts, Dump 74
Caps, Hay 76
Carriers, Hay 77
Carriers, Butter 81
" Egg 95
Cans, Mixing 80
Caps, Bottle 81
Cauldrons 101
Corn, Ensilage and Field 9–10–11
Chemicals 56
Cutters, Potato 67
" Ohio 82
" Freeman 83
" Baldwin 84
" Root 87
" Lever 87
Churns 79–80
Creameries 80
Coolers, Milk 81
Cushions, Spring 100

D

Diggers, Potato 70
Dryers, Clothes 95

E

Engines, Steam 110

F

Fertilizers 56–60
Freezers, Ice Cream 87
Fly Killer 93
Fountains, Poultry 95
Fixtures, Stable 96
Fencing, Field 108
Food, Poultry 111

G

Page.
Grains 27
Grinders, Knife 76
Grindstones 78

H

Harrows 62–67
Harnesses, Sherwood 74
Harvester, Corn 75
Hoes—Wheel, Hand 68–69
" Horse 70–71–72
Heaters, Tank 100
Hose, Rubber 89
" Menders 89

I

Ice Tools 103
Incubators 104
Insecticides 92

J

Jadoo Fibre 56
Jacks, Wheel 100

M

Millets 27
Mowing Machines 75
Moulds, Butter 81
Mills, Grist 86
" Fanning 87
" Cider 101
" Bone 106–7
" Wind 110
Mowers, Lawn 97–98–99
" Horse, Lawn 99

N

Netting, Poultry 107–108

O

Oil, Machine 95

P

Pails, Milk 80
Potatoes 19–20
Plants, Strawberry 55
Plows 60–61
" Contractors 102
Planters, Corn 65–66–67
" Potato 67
Presses, Hay 72

Page.
Pumps, Spraying 88
" Well 91–92
Pickers, Fruit 95
Picks 102
Pots, Flower 109
Power, Horse 110
Poultry 113

R

Rakes, Hay 76
Reels, Hose 99
Rollers 73

S

Saws, Power 85
Scales 78, 82
Scrapers, Steel 102
Seeds—Vegetable 1–26
" Grass 25–26
" Lawn 28
" Flower 29–51
Sheep Manure 56
Seeders, Hand 68–69
Sowers, Fertilizer 74
Silos 78
Separators, Cream 79
Strainers, Milk 81
Shredders, Tornado 84
Shellers, Corn 86
Spraying Tools 88–90
" Bellows 88
Sprinklers, Lawn 90
Sections, Machine 95
Swings, Lawn 99
Shovels 102

T

Tedders, Hay 76
Transplanters 74
Thermometers, Dairy 79
Tools, Miscellaneous 94
Traps 95
Trucks, Store 95
Thermometers, Incubator 95
Twine, Binder 95

V

Vises, Farmers' 100

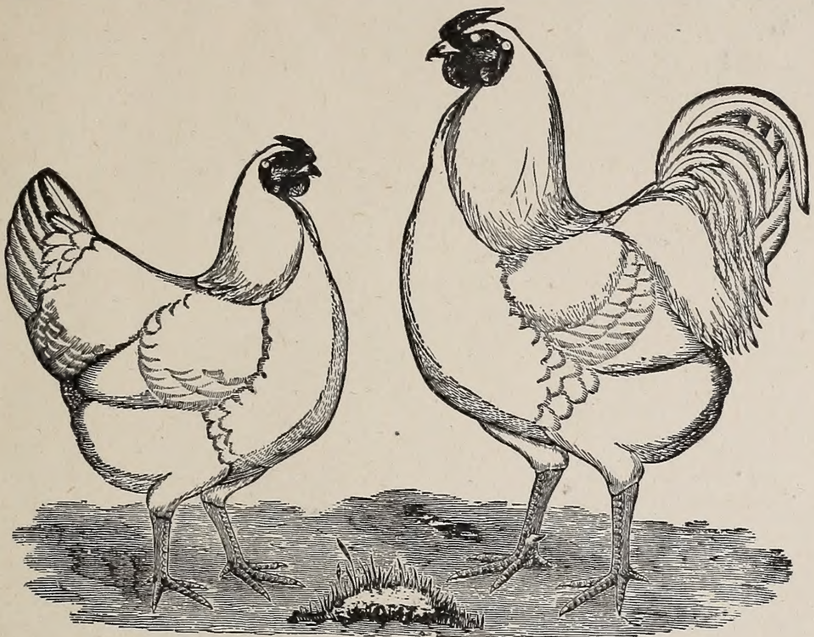
W

Weeders, Horse 72
Workers, Butter 79
Wickets, Wire 95

Davis, Printer, Worcester, Mass.

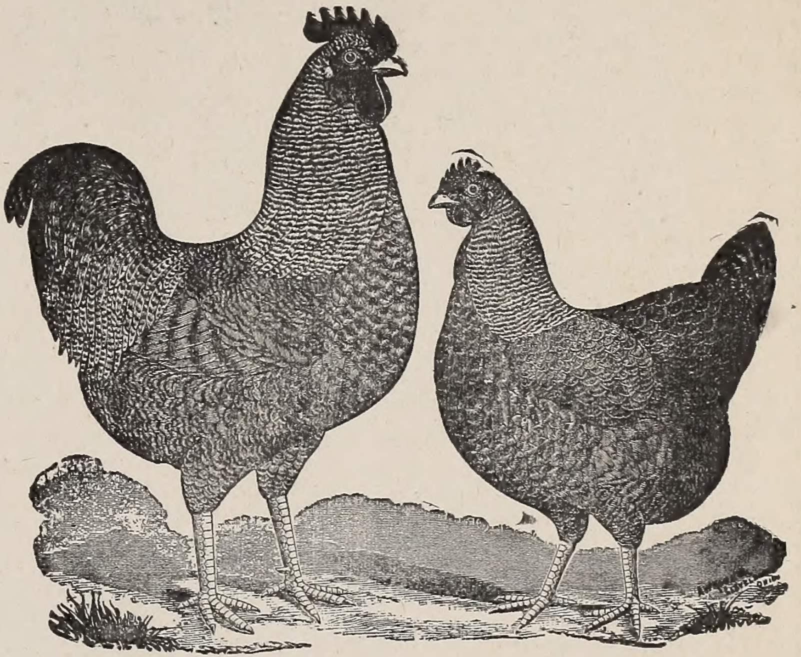
Thoroughbred Poultry and Eggs for Hatching.

THIS page is devoted to Poultry, as we believe that this department pays the farmer a larger margin of profit than any other for the amount of money invested. We have some very fine stock of the leading breeds and are in position to furnish Eggs that we are confident will give satisfaction. All eggs carefully packed and delivered to express office, and a good hatch guaranteed. . . . .

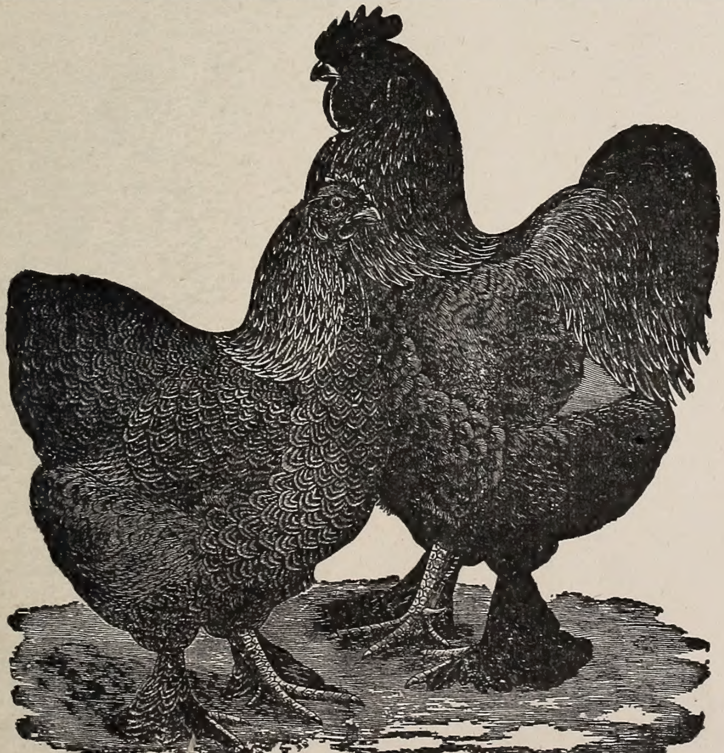


WHITE WYANDOTTES. This breed is our favorite, and is acknowledged by the leading papers and poultry handlers as standing at the head for both eggs and poultry, while but few breeds surpass them for beauty. Their beautiful pure white plumage, together with their rich yellow legs and red faces and ear lobes, make them very attractive. They are great winter layers and for all purposes they are unequalled. Eggs per setting, $2.00, or two settings, one shipment, $3.00. Special price per 100 for incubators.

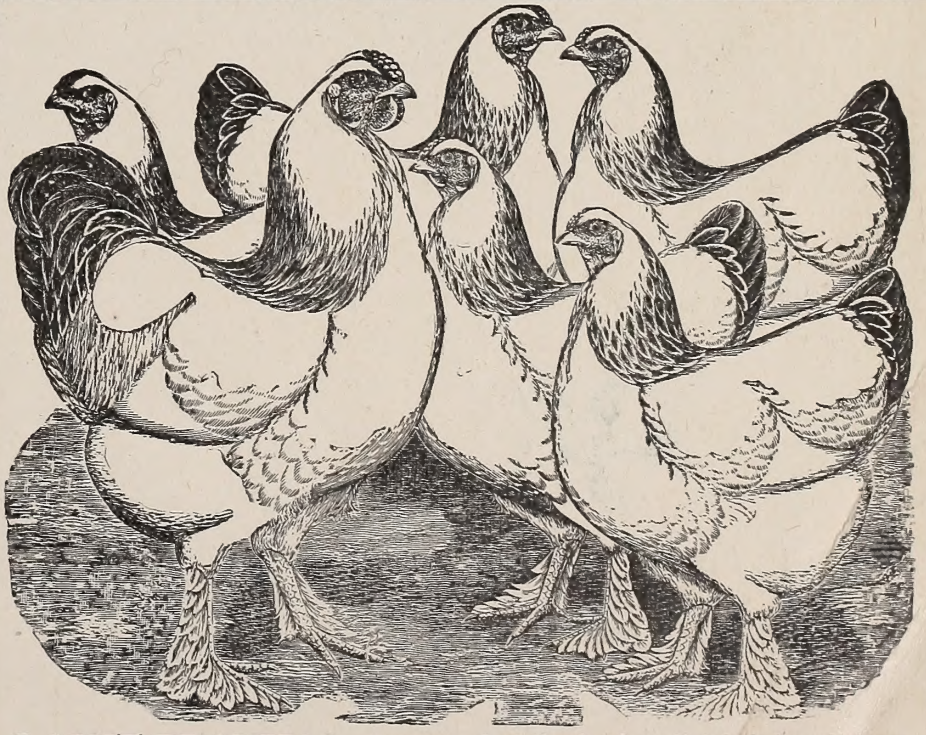
BUFF WYANDOTTES, same as the above only in color, a limited number of sittings at $2.00.



BARRED PLYMOUTH ROCKS. Among the many fine breeds of fowl bred by poultry fanciers generally, the Plymouth Rocks stand at the head as a general purpose fowl. They are medium size, beautiful plumage, very hardy and easily raised; first-class layers, good mothers, and an excellent table fowl. We have some of the finest stock in New England, We have a few good breeding cockerels for sale at $2.00 to $5.00 each. Eggs, 13 for $2.00; 26 in one shipment, $3.00. Special price per 100 for incubators.



PARTRIDGE COCHINS Are the handsomest of the Cochins, and with many the favorite breed. In plumage they are rich and elegant and so dark as not to become soiled when confined in small yards. They have a beautiful plumage, the hen is rich brown, with cross-penciling of black; hackle golden yellow, striped with black, having a downy appearance and motherly bearing. Cocks have a solid black breast, red back, hackle and saddle orange red, with fine, well built, symmetrical form. They are large, cocks often weighing 11 pounds, hens 9 pounds. Have yellow legs and skin. Excellent layers during the winter, and are an ornament for the lawn. Eggs, 13 for $2.00, 39 for $5.00.



LIGHT BRAHMAS. Have stood at the head of all Asiatic breeds for 30 years, while other breeds have had their ups and downs, and they hold their own today and have more friends than when first known. They are the largest of all breeds, and furnish more pounds of flesh and eggs in twelve months than any other breed of fowls. When full grown the cocks weigh twelve pounds and the hens ten pounds. They are well adapted for all purposes; so handsome, gentle and practical one cannot help but like them. They stand confinement well and will not fly over a fence three feet high. Our pen of brahmas is as good as stands in the state, and if you order a setting of eggs you will not be disappointed. Eggs, 13 for $2.00, 39 for $5.00.

IF YOU FEED WYANDOTT BRAND CHICKEN FEED

You will have Good, Strong, Healthy Chickens. Order a bag for trial, or ask for sample by mail.

Choice Vegetable Seeds.

Agricultural Tools.

WE SELL
EVERY TOOL
NECESSA Y FOR THE
CULTIVA N OF THE
SMALL GARDEN
OR THE LA E FARM.